







Gunthapally (V), Abdullapurmet (M), R.R. Dist., Near Ramoji Filmcity, Hyderabad - 501 512.

## 5.1.1: Number of students benefited by Scholarships and Freeships provided by the institution, Government & Non - Government bodies, industries, individuals, philanthropists during the academic year 2020-2021 **INDEX**

S.NO	NAME OF THE SCHEME	NO OF BENEFITED STUDENTS	AMOUNT (RS.)	PAGE NO	
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2	Model freeship question paper			04 - 20	
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5	Freeship students with sanctioned amount				
6	Freeship to poor and economically backward students	78	3,27,,000	123 - 144	
7	Merit scholarship students list with amount	20	80,000	145 -146	
	TOTAL STUDENTS COUNT:	160	7,00,000		

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R.R. Dist. Telangana.

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# AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES

(Approved by PCI, AICTE & Affiliated to JNTUH)







## **POLICY DOCUMENT**

## AVANTHI FREESHIP AND MERIT SCHOLARSHIP POLICY

**OBJECTIVE:** The objective of the scheme is to provide financial assistance to the scheduled students studying at Avanthi Institute of Pharmaceutical Sciences to enable to complete their education.

The management of Avanthi Institute of Pharmaceutical Sciences is committed to promote and support higher education opportunities for students from diverse backgrounds.

In recognition of the importance of financial aid in facilitating access to quality education, the institution has established a policy framework for the fair and transparent distribution of non-government scholarships and free ships.

The institution has taken several initiations to motivate students to perform well in their academics, sports and extra-curricular activities,

The student's eligibility for award, medals and other financial assistance is based on their academic performance, financial background and other needs.

This policy document outlines the guidelines, procedures and criteria for the awarding of merit scholarships and free-ships.

#### The financial assistance to the students will be provided based on the following criteria:

- 1) To encourage and reward academic excellence, recognizing outstanding achievements by students at Avanthi Institute of Pharmaceutical Sciences.
- 2) To provide financial assistance to students from poor background, enabling them pursue higher education.
- 3) To promote a diverse and inclusive student community by supporting students with exceptional talents in sports, cultural activities or other areas of achievement.
- 4) To ensure transparency, fairness and accountability in the process of Scholarships and free-ships.
- 5) Financial support shall be provided to needy students to take-up quality projects

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- 6) Admission through free ship will be offered on a first-come, first-served basis financial status of applicant.
- 7) The students who are eligible can apply for AVANTHI FREESHIP AND MERIT SCHOLARSHIP (INTERNAL POLICY) and must attend the counseling for as per the schedule.
- 8) The Freeships offered through Avanthi Freeship Test, is applicable for the first year students at the time of admission. The same freeship will be continued in subsequent years of study based on the student performance
- 9) After first year and for the consequent years, the students must attain the attendance percentage ≥ 80 and should not have more than two backlogs in the previous academic year.
- 10) The list of short listed students who obtain merit marks in Avanthi Freeship Test are forwarded by the Principal to the Governing Body for approval Freeships are implemented after the approval in Governing body council.
- 11) Concession / Freeships can also be given to other senior students based on the annual income of the parents and also on the socio economic condition of the students, the decision will be purely based on the institution

## STUDENT MERIT SCHOLARSHIP FRAME WORK

The merit scholarship will be provided for all First and Second TOPPERS of the students year wise and programwise.

2.For  $2^{nd}$  TOPPER awarded ............ Rs 3000 /-

The Avanthi Freeships and Merit Scholarships Policy is adapted on this day Dec 4<sup>th</sup> 2017 at Avanthi Institute of Pharmaceutical Sciences, Hyderabad. According to the Merit scholarship Policy, those who are academic toppers will be awarded on Anniversary Day of the institution

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## Avanthi InstituteofPharmaceuticSciences,

Gunthapally(V), Abdullapurmet(M), Ranga Reddy Dist.501512
FREESHIP EXAMINATIONTEST
2020-21

	l Marks: 100 e of the student:		_	_		Duratio Date:	<b>n:</b> 180mir	1	
Avar	nthi Freeship No:		,	•					
1.	Maximum transpir	ation is by					(	)	
	1) Stomata 2) Cutic	le	8	3) Le	nticels	4) Cut	icle & Ler	nticels	
2.	Scotoactive stomat	a					(	)	
	1) Opens during day	time			2) Opens d	luring nig	ht time		
	3) Opens during Da	y & Night			4) Never o	pens			
3.	Dumbbell shaped	guard cells a	re seen	in			(	)	
	1) All monocots	2) Li	liaceae	3) Gr	aminaceae		4) Dicoty	ledons	
4.	Source of protons	during stoma	atal ope	ening is	s		(	)	
	1) Water	2) Sugars	3) Lig	ght		4) Ma	late		
5.	During opening of	stomata, into	o the g	uard c	ells		(	, )	
	I: Entry of K+ is ac	tive	II: Er	itry of	Cl is active				
	III: Export of H+ is	active	IV: E	ntry of	H <sub>2</sub> O is activ	ve			
	Correct statements	are							
	1) I & II	2) II & III	3) I &	ž III	4) I & IV				
6.	Transpiration can	be demonstr	ated by	y			(	)	
	1) Ganong's potom	eter	2) B	ell jar e	experiment				
	3) Hydrilla experim	nent	4) Ba	aromete	er				
7.	The factors that s	how inversely	y propo	ortiona	l relationsh	ip with t	ranspirati	on	
							(	)	
	1) Temperature & l	Humidity							
	2) Availability of w	vater & Very	high ve	locity (	of wind				
	3) Light & Temper	ature				11			
	4) Humidity & Ver	y high veloci	ty of w	ind		AVANT	PRINC!	PAL STITU AL SCIE	TE OF NCES
				<b>P</b> 55		Gunthar	R.R. Dist.	1100	111 111
	*								

8.	Assertion (A): S	pinous plants transp	oire less	(	)	
	Reason(R): Spi	nes are adoptions of	xerophytic plant	s		
	1) Both A and R	are true and R is the	correct explanation	of A.		
	2) Both A and R	are true but R is not t	he correct explana	tion of A.		
	3) A is true, R is	false 4) A	A is false, R is true			
9.	Natural anti trai	aspirant in plants is			(	)
	1) Auxin	2) Malate	3) Proto	n 4)	) ABA	,
10.	Transpiration pl	ays an indirect role	in		( -	)
	1) Uptake & Tran	sport of minerals	2) Absorption	of water		
	3) Translocation (	of solutes	4) Distribution	of water		
11.	Transpiration is	a 'necessary evil '-	stated by		, (	)
	1) Slatyer	2) Arnon	3) Knop	4)	) Curtis	,
12.	Phenyl mercuric	acetate (PMA) is			(	)
	1) An antibiotic u	sed as an antitranspir	ant			,
	2) A fungicide us	ed to increase transpi	ration			
	3) A fungicide use	ed as an antitranspira	nt			
	4) A growth horm	none used as an anti t	ranspirant.			
13.**	Enzymes that use	ATP for their activ	ity is		(	)
	1) Kinases	2) Syntheta	ses			
	3) Transferases	. 4) Hydrolas	ses			
14.	Metallic co-factor	in carboxy peptida	se is	(	) ·	
	1)Fe	2)Mn	3) Zn	4)Mg		
15.	Third number in	the enzyme nomenc	lature indicates		(	)
,	1)Sub-Subclass	2)SubClasses 3)N	lajor Classes	4)Serial numb		a

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1) Apoenzyme 2)Simple enzyme 3)Conjugated enzyme 4)Inducive enzyme  17. The reaction CO₂+ H₂O ↔ H₂CO₃ requires 1) No enzyme 2)An enzyme 3)Very high temperatures 4)Very low temperatures	cancer cells is	)	
17. The reaction $CO_2$ + $H_2O \leftrightarrow H_2CO_3$ requires  1) No enzyme  2)An enzyme	cancer cells is	)	
1) No enzyme 2)An enzyme	cancer cells is	,	
	cancer cells is	a.	
3)Very high temperatures 4)Very low temperatures	cancer cells is		
	cancer cells is	٠	
18. Immunity that protects against intracellular bacteria, virus &			
a) Innate immunity b) Humoral immunity c) Non-specific immunity d) Cell mediated immunity			
19. Stomatal Index is	(	)	
1) Ratio between stomata and leaf surface area			
2) Ratio between stomata per unit area and sum of epidermal cell unit are	ls and stomata o	of that	
3) Ratio between epidermal cells and stomata of that unit area			
4) Ratio between sum of stomata and epidermal cells of a unit are	ea and stomata	of that	
area.			
20. Ascent of sap is movement of water from	(	)	
1) Soil into Xylem 2) Xylem into leaves			
3) Xylem into atmosphere 4) Leaves into atmosphere			
21. Guttation is	(	)	
1. Evidence of root pressure.			
2. Movement of water through the apoplast.			
3. Movement of soluble organic materials through plants			
4. Negative pressure created by transpiration.			
22. When water potential of accessory cells increase	, (	)	
1) Stomata open 2) Stomata close	es		
3) Stomata either opens or closes 4) Stomata neith	ner opens nor cl	oses	
23. True statement regarding opening of stomata	(	)	
1) Wind is essential 2) Water potential grad	lient is essential		
3) Light is essential.  4) Protons are essential  AVANT  PHAT  Continue  Continue  AVANT  Continue  Contin	PRINCIPAL THI THE RMACE	TUTE OF CIENCES Spurmet (Magana)	F 1).

24. True stateme	ent regarding	environment	tal factors is		(	)	
I: High wind v	elocity increase	es transpirati	on continuously				
II: As available	water is pure	rate of transp	oiration is maxin	num.			
III: Atmospheri							
IV: Light incre	eases transpirat	ion to certain	n extent				
1)I & II	2) II &	III	3) Only IV	4) ]	IV & II		
25. Apparently the	source of ene	rgy for keep	ing stomata on	en is	(	<b>)</b>	
1. Ion transfer		2.Transpiration		ch is	(	,	
3. Photosynthesis		-	oond formation				
26. Transpiration r	ate is inversel	v proportion	nal to				
		Gentle breez			(	)	
_	) 2.8.11	dentile breez	e 4) High wi	ina speed	S		
27 . Stomatal openin	g and closing	denends on			,	,	
1)pH changes	g and closing	acpenus on	2) Guard call -:		(	)	
3) Size of stomatal cl	hamber		2) Guard cell siz		0		
28 .During stomatal c			4) Solute concer	ntration o	f guard	l cells	
	-	0.11- 2) D			(	)	
<ul><li>Protons move active</li><li>Chloride moves pa</li></ul>	ecivaly into an						
of emoriae moves pa	issively into gu	ard cells.	4) Malate moves	s to adjac	ent cell	ls.	
29. The reason that a	column of we	ton in a 4-11	4				
<b>29.</b> The reason that a 1. The tensile strength	of a column	c a tall	tree does not si	nk becau	ise of it	ts weightis	( )
2. Bubbles form that a			•				
3. The presence of str 4. The formation of h				ree			
4. The formation of h	yurogen bonds	with the plai	nts vessels				
30 Stomata open duri	ing day and al						
30 .Stomata open duri 1)Photoactive			night are called	as	( )	)	
	2) Scotos						
3)Amphiactive	4) Hypoa	active		AVAN PHA Guntha	TH!	NCIPAL INSTITUTE SOLUTION ADMINISTRATION OF THE PROPERTY OF TH	UTE OF ENCES purmet (M), ana
					L'in		

31)R	ate of t	he tran	spiratio	on from	the up	per su	rface a	nd lowe	er surfa	ice of the	e		
		e know								(	)		
1. E	Bell jar o	experim	ent				2.Cobal	t chlori	de expe		,		
3. 0	anong'	s poton	neter						nscreen				
32) A	ssertio	n (A):	The dige	estive ac	tion of	salivar	y amyla	se stops	s when t	the swall	owed bolu	ıs	
En	ters the	stomac	h										
Rea	son (R)	: Saliva	ary amy	lase is ir	nactivat	ed at th	e low p	H of ga	stric jui	ce			
a. B	oth A a	nd R are	e true ar	nd the R	is corre	ct expl	anation	of the A	4				
b. B	oth A a	nd R are	e true bi	it the R	is not co	orrect e	xplanat	ion of tl	he A				
c. A	is true,	but the	R is fal	se									
d. B	oth A a	nd R are	e false										
33)	Match	the foll	owing										
Co	olumn -	I			Colu	mn-II							
A)	Hau	stra			i) Pal	late							
B)	Uvu	la			ii) Na	asopala	tine du	et					
C)	Saco	ulus rot	tundus		iii) P	harynx							
D)	Jaco	bson's o	organ		iv) C	olon							
					v) Ile	um			1				
	A	В	C	В			A	В	C	D			
a.	IV	I	V	II		b.	IV	I	V	III			
c.	I	IV	II	$\mathbf{v}$		d.	I	IV	III	V			
											ø		
				ı semici	rcle at	the bas	se of tor	igue ar	e				
a.I	Fungifo	rm	b. Fil	iform		c. Fo	liate		d. Ci	rcumvall	ate		
35) A.,	<b></b> 4	L - C 11	•		_								
		ne iono the inn		arts in t	he ston	nach w	all in tl	ie corre	ect sequ	ience fro	om		
		nuscle i		D. C.		C ) (							
		nuscle f		B. Sei			usculari						
	ibmuco		10018	E. Co	lumnar	epithel	ıum	F. Lo	ongitudi	inal musc	ele fibers		
	F-A-D-		1. D	4 E D (									
a. D-	r-A-D-	G-C-E	b. B-	A-F-D-C	з-С-Е	c. B-	F-A-G-I	O-C-E	d. B-	F-A-D-C			
									,,	1 P	RINCIP	TUTE	OF
									AV	ANTH!	CEUTICAL (V), Abdu	SCIENCE	S (M)
									eu	nthapally	CEUTICAL (V), Abdu Dist. Tele	illapurme angan <b>a</b> .	· (m)

36).	. The cells that ar	e not found in the	gastric glan	d of rabbit are	•	
	a.Oxyntic cells	b. Zymo	gen cells	c. Parietal cel	ls	d. Kupffer cells
37)	Choose the cor	rect statement				
		orotein intake causes	kwashiork	or		
		at intake causes ma				
		nagnesium causes se				
		niacin causes seborrl				
38)	choose the cor	rect answer				
Sa	llivary glands	Character				
I)	Infra-orbital - S	ituated below the ey	e orbit			
		Open through Whart				
II		Open through Stens				
IV	/) Sub lingual - Si	tuated below the ton	gue			
a.	I and II	b. II and III	c. III a	nd I	d. I and	IV
on	the protein o	the only end productionstituents?  b. Carboxypeptide			of the fo	llowing enzymes acts
40) 7 a. I	The detoxifying o Liver b	rgan of the body is  o. Pancreas	c. Spleen	d. Bone ma	rrow	
41) Ir	normal conditio	ns, the lower oesop	hageal snh	incter prevent	s the rec	ungitatai an
of	food from the		B P	meter prevent	s the reg	ur gitataion
a.C	ardiac stomach to	pyloric stomach		b. Cardiac stom	nach to fi	Indic stomach
c. (	Cardiac stomach to	oesophagus		d. Pyloric stom		
42)	Formation of glu	cose in liver from	ion-carboh	ydrates is calle	ed	adde stomach
8	a.Glycogenesis	b. Glucone	ogenesis	c. Lipogenesis	d	Glycogenolysis
					AVAN PH Gunth	PRINCIPAL  NTH! INSTITUTE OF  IARMACEUTICAL SCIENCES  Rapally (V), Abdullapurmet (M),  R.R. Dist. Telangana.

#### 43) Match the followings

# Cells Secretion A) Zymogen Cells I) Mucus B) Neck Cells II) Pepsinogen

C) Parietal Cells	III) Gastrin				
D) C C-11-	III) C - 41 2 - 1 - 1 - 1				

D) G	-Cells		IV) (	IV) Castle's intrinsic factor								
	A	В	C	D		A	В	C	D			
a.	III	I	IV	II	b.	II	IV	I	III			
c.	III	IV	I	II	d.	II	I	IV	III			

#### 44) Read the following

- I. Health and vigour of epithelial tissues-vitamin A
- II. Health and integrity of muscles-vitamin E
- III. Integrity of endothelium -vitamin C
- IV. Functioning of gonads-vitamin E

Which of the above are true?

a. All are true b. All except IV c. All except II d. All are false

## 45) Which of the following substances are absorbed into the cells and into blood by diffusion?

- a. Amino acids

  b. Fructose
- c. Short chain fatty acids

  d. Long chain fatty acids

# 46) Following are the enzymes that act up on proteins. Arrange them in a sequence of their action

- a) Dipeptidase b) Pepsin c) Carboxypeptidase d) Tripeptidase e) Trypsin
- a. e-b-d-c-a b. b-e-c-d-a c. c-a-d-b-e d.d-c-a-b-d
- 47) Mineral required for the formation of insulin is a.Sulphur b. Iodine c. Cobalt d. Copper

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48)	) Proteolytic enzymes wh	ich act in acid	ic medium	are	
	a.Chymotrypsin, rennin	L	b. Pe	psin, Rennin	
	c. Pepsinogen, Trypsinog	gen	d. Pe	psin, Trypsin	
49)	Correct statement from	the following i	is		
	a.Pyloric sphincter regula	tes the flow of	food in to t	the duodenum	
	b.Lower oesophageal sph	incter prevents	backward	flow of food int	o duodenum
	c.Pylorus is present between	een pyloric stor	nach and fi	undic stomach	
	d.Cardia is present between	en cardiac ston	nach and fu	undic stomach.	
50)	Stensen's duct and whan		associated	d with the follo	wing glands
	a.Parotid & sub maxillar		Parotid &	sublingual	
	c. Sub maxillary & subli		Sublingual	& Infra orbital	
51)	Dietetics' is related to t				
	a.Nutritional disorders			nature of food	
:	c. Food stuff and nutrition		Minerals &		
52)	Decreased blood pressur	e, low pulse ra	te, lowers	than normal l	oody temperature and
	mental retardation are	the symptoms	of		
	a.Obesity b.	Marasmus	c. Kv	vashiorkor	d. Carcinoma
53).	Many diseases can be d	liagnosed by o	bserving tl	he symptoms i	n the patient. Which groups of
	symptoms are indicative	e of pneumonia	a?		
	a. Difficulty in respirat	tion, fever, chil	ls, cough, l	neadache	
	b. Constipation, abdon	ninal pain, cran	nps, blood	clots	
	c. Nasal congestion an	d discharge, co	ugh, sore tl	hroat, headache	
- 1	<i>3</i>				_
54)	Antibodies present in co	lostrum which	protect th	ie new born fr	om certain diseases is of
	a. Ig G type b. Is	g A type c. Iş	g D type	d. Ig E type	
55).	Identify the third line of	defense from	the followi	ing	
	a) NK cells b) T	Tears	c) T c	ells	d) Phagocytes
56)	The chamical test that is		,		
30)	The chemical test that is		,		
	a. ELISA-Test b. E	ESR – Test c. P	CR – Test	d. Widal-Test	
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				PHA	RMACEUTICAL SCIENCES (M), pally (V), Anduilapurmet (M), R.R. Dist. Telangana.
				Gunne	R.R. Dist.

57)	Acur	rent	is flowing	due north a	long a po	werline.The	direction	of the magnetic
	field	abo	ve it, negl	ecting the ea	rth's field	l is:		
	(1)Nort	h		(2)East		(3)South		(4)West
58	<ul><li>a) Mali</li><li>b) Beni</li><li>c) Sarce</li></ul>	gnant gn tui omas	tumors exh mors are wit are the mali	nt among the ibit metastasis h a fibrous out gnant tumors of	er capsule		gans	
59)	A squa	re c	onducting	loop of lengt	h L on a s	ide has a cui	rrent'i'in	it. The magnetic
			at the cent lent of L	re of the loo	p is	(2)Directly 1	proportion	nal L
	(3)Inver	sely	proportion	al to L		(4)Inversely	proportio	onal to $L^2$
60).	when a could be	n app e that	oarently hea :	althy person is	diagnosed	l as unhealthy	y by a psyc	hiatrist, the reason
	a. The pa	atient	was not effi	cient at his wo	rk			*
	b. The pa	atient	was not eco	nomically pros	perous			
	c. The pa	atient	shows behav	vioral and soci	al maladjus	tment		
	d. He do	es not	take interes	st in sports				
61)	When no	exte	rnal force is	acting on a sy	ystem of pa	articles, the co	entre of ma	ass of the system
	0.0		at rest only with constant	t velocity or wi	ll be at rest			stant velocity only variable velocity
62)	Field at	t the	centre of c	ircular coilo	fradiusr,	through whi	ch a curre	entI flows is
	(1)Dire	ctly	proportion	altor		(2)Inversely	proportio	naltoI
	(3)Direc	tly p	roportiona	ltoI		(4)Directly p	proportion	$altoI^2$
63)	Lines of	magı	netic field	around a cur	rent carry	ing straight	conducto	r will be
	1) Straig	ht line	esparallel to	conductor				
	2) Circul	ar in a	a plane para	llel to conducto	or		11	
	3) Circul	ar in a	a plane perp	endicular to co	nductor		1	DICTRAL

4)Straight perpendicular to conductor

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- 64) Magnetic induction at a point due to a small element of current carrying conductor is
  - 1) Inversely proportional tothesquare of the distance of the point fromt the conductor
  - 2) Inversely proportional to the distance of the poin tform the conductor
  - 3) Directly proportional to the square of the length of conductor
  - 4) Directly proportional to the square of the current
- 65) Imagine a man swimming along a current carrying conductor in a direction opposite to that of current and facing the conductor. A magnetic needle free to rotate in a horizontal plane is mounted on a stand under the wire. Then
  - 1) The north pole of the needle e will deflect towards his left hand
  - 2) The south pole of then needle willd deflect towards his left hand
  - 3) Then needle will not deflect
  - 4) Then needle will oscillate
- 66) Statement A: current is scalar.

StatementB:currentelementisvector.

- 1)A and B are true 2)A and B are false
- 3)Only A is ture
- 4)Only B is true
- 67) Statement(A): Ampere's laws tates that thel ine integral of B. dlalonga closed path Round the current carrying conductor is equal to μ<sub>0</sub>i Surface bounded by the closed path).

Statement(B):Ampere's law can be derived from Biotsavart'slaw.

- 1)A is true B is false 2)A is false B is true 3)A and B are true 4)A and B is false
- 68) A vertical straight conductor carries a current vertically upwards. A point P lies to the east of it as a small distance and another point Q lies to the west at the same distance. The magnetic field at P is
  - a. Greater than at Q
  - b. Same as at Q
  - c.Less than at Q
  - d.Greater or less than a tQ depending upon the magnetic field of the current.

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<b>69</b> )	Which of	the	following i	s a	pair o	f viral	diseases?
-------------	----------	-----	-------------	-----	--------	---------	-----------

- a) Typhoid and tuberculosis
- b) Ring worm and AIDS
- c) Common cold and AIDS
- d) Dysentery and common cold

## 70) Where will you look for the sporozoites of the malarial parasite?

- a) RBCs of Humans suffering from malaria
- b) Saliva of infected female anopheles mosquito
- c) Saliva of Infected female culex mosquito
- d) Spleen of infected humans.

## 71) The current through a circular coil appears to be flowing in clock-wise direction for

## an observer. The magnetic induction at the centre of the coil is:

- e. Perpendicular to the plane of the coil and towards the observer
- f. Perpendicular to the plane of the coil and away from the observer
- g. Parallel to plane of the coil
- h. Inclinedat450at the plane of coil
- 72) A long wire carries a steady current. It is bent into a circle of one turn and the magnetic field at the centre of the coil B. It is then bent into a circular loop of n turns. The magnetic field at the centre of the coil will be:

1)nB

 $2)n^2B$ 

3)2nB

 $4)2n^2B$ 

## 73) The magnetic field at the centre of the current carrying coilis

1)Directed normal to plane of the coil

2)Directed parallel to plane ofthe coil

3)Zero

4)Radial from centre of the coil

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7	4) The electi	ric current in a circu	lar coil of two tu	rns produced	a magnetic induct	tion of
		s centre. The coil is t				
		induction at the cent				
	the coil)					
	1)0.2	2)0.4	3)0.0	5	4)0.8	
7	75) In an ato	om the electron has a	time period of (	0.16 x 10 <sup>-15</sup> s	in a circular orbit	of radiu
	$0.5   A^{0}$	The magnetic indu	ction at the centi	e of the orbit	will be (in tesla)	
	1)12.56	2)125.6	3)1.2	256	4)25.12	
76	6) Acircular	arc of wire subtend	s an angleπ/2 at 1	the centre. If i	it carries a current	i and its
	radius of	curvature is R then	the magnetic fiel	d at the centro	e of the arc is	
	$1)\mu_0 i$	2) $\mu_0$ i2R 3) $\mu_0$ i	4)μ <sub>0</sub> <i>i</i> 8R	a at the centr	of the are is	
	ratio 2 : 1 i  1)3 : 2  2) $\sqrt{3}$ : $\sqrt{2}$	s				
	3) $\sqrt{2}$ : $\sqrt{3}$					
	4)2 : 3					
<b>78</b> )	In lanthanid	es, with increase in at	omic number ator	nic radius decr	eases, except for the	<b>:</b>
	element X,	what X?				
	1)Gd					
	2)Eu			,	· · · · · · · · · · · · · · · · · · ·	المارية
	3)Tm			\	1	
	4)Dy			AVANT PHAF	PRINCIPAL INSTITUTE INSTITUTE RMACEUTICAL SCIENCE Daily (V), Abdullapurmon R.R. Dist. Telangana.	0. 1
				15011	R.K.	

79) Dipole moment order of which of the following pairs of molecules is not correct?

1)HF > HC1

 $2)H_2S > CO_2$ 

 $3)NH_3 > NF_3$ 

 $4)CH_4 > CHCl_3$ 

80) X and Y are the two covalent molecules in which the hybridization of the central atoms is same, but shapes are different. X and Y are

a.XeF<sub>4</sub>, NH<sub>3</sub>

b.XeF<sub>2</sub>, PF<sub>5</sub>

c.BF<sub>3</sub>, H<sub>2</sub>O

d.CH<sub>4</sub>, BeCl<sub>2</sub>

81) At same temperature and pressure, the rate of diffusion of gas 'X' is  $3\sqrt{3}$  times that of agaseous hydrocarbon of molar mass 54g mol<sup>-1</sup>. The molar mass of X in g mol<sup>-1</sup> is

1)16

2)2

3)32

4)28

82) From the given reaction

 $2KMnO_4 + 3H_2SO_4 + 5H_2O_2 \square K_2SO_4 + 2MnSO_4 + 8H_2O + 5O_2$ 

Find the normality of  $H_2O_2$  solution, if 20mL of it is required to react completely with 16mLof 0.02 MKMnO<sub>4</sub> solution. (Molar mass of KMnO<sub>4</sub> = 158 g mol<sup>-1</sup>)

 $1)4 \times 10^{-2} \text{ N}$ 

 $2)2 \times 10^{-2} \text{ N}$ 

 $3)6 \times 10^{-2} \text{ N}$ 

4)8  $\times 10^{-2} \text{ N}$ 

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At the temperature T(K) for the reaction  $X_2O_{4(l)} \rightarrow 2XO_{2(g)} \Delta U = xkJ \text{ mol}^{-1}$ ,  $\Delta S = y Jk^{-1}\text{mol}^{-1}$ . Gibbs energy change for the reaction is (Assume  $X_2O_4$ ,  $XO_2$  are ideal gases)

1)1000 
$$x + 2R (T - y)J mol^{-1}$$

$$2)1000 x + T (2R - y)J mol^{-1}$$

$$3)x + T (2R - y)J mol^{-1}$$

$$4)x + 2R (T - y)J mol^{-1}$$

84) Arrange the aqueous solutions of the following salts in the increasing order of pH

III

- 85) Be and Al show similarities in properties due to diagonal relationship except in the property X given below. What is X?
  - 1) Both form basic oxides and hydroxides
  - 2) Ions of both have strong tendency to form complexes
  - 3) In vapour phase chlorides of both have Cl bridged chloride structure
  - 4)Chlorides of both are soluble in organic solvents
- 86) In the structure of B<sub>2</sub>H<sub>6</sub>, the number of BH<sub>2</sub> groups present in one plane, and the number of B-H bonds, B-B bonds, B-H-B bridge bonds are respectively

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## 87) Identify the incorrect statements from the following

- I. Tin in +2 state acts as reducing agent while lead in +4 state acts as strong oxidizing agent
- II. Silicon exists as both  $[SiF_6]^{2-}$  and  $[SiCl_6]^{2-}$  forms
- The hybridization of carbon in fullerene is sp<sup>3</sup> III.
- IV. Among Ge, Sn and Pb lowest melting point is for Sn
- 1)I, IV 2) II,IV 3) II,III 4) III,IV

# 88). Methane of the polluted air reacts with ozone and forms the compound

- 3)  $CH_2 = CH-CHO, C_2H_5CHO$
- 4) CO<sub>2</sub>, H<sub>2</sub>O

## Assertion (A): Propene on addition with hydrogen bromide in the presence of peroxide 89) gives 1-Bromopropane as the major product

Reason (R): 1-Bromopropane is the major product because it is formed through the stablecarbocation

The correct answer is

- 1)(A) and (R) are correct, (R) is the correct explanation of (A)
- 2)(A) and (R) are correct but (R) is not the correct explanation of (A)
- 3)(A) is correct but (R) is not correct
- 4)(A) is not correct but (R) is correct
- 90). A metal crystallizes in two phases, one as fcc and other as bcc with unit cell edge lengths of 3.5A and 3.0 Arespectively. The ratio of density of fcc and bcc phasesapproximately is
  - 1)1.5:1.0
  - 2)1.0:1.5
  - 3)1.26:1
  - 4)1:1.26

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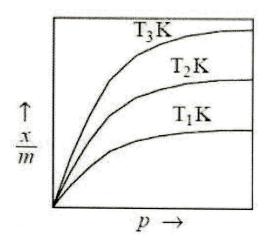
keykkkkgu

## 91. Which of the following represents the hyperconjugation effect?

$$1 > C = C < +CN \longrightarrow C - C < C$$

2. 
$$CH_3 - CH_2 - CH_2 \rightarrow C1$$

- 1) 1 2) 2 3) 3 4) 4
- 92). Freundlich adsorption isotherms for the physical adsorption of a gas at temperature  $T_1, T_2$  and  $T_3$  are shown in the graph given below. The correct relationship between  $T_1, T_2$  and  $T_3$  is



 $1)T_1 < T_2 < T_3$   $2)T_3 < T_1 < T_2$   $3)T_3 < T_2 < T_1$   $4)T_2 < T_1 < T_3$ 

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93). The ore which is concentrated by leaching

1)PbS		
2)Al <sub>2</sub> O <sub>3</sub> , 2H <sub>2</sub> O		
3)SnO <sub>2</sub>		
4)Fe <sub>2</sub> O <sub>3</sub>		
94) Centre of mass of a body		
<ul><li>1)Always lies inside the body</li><li>3) Always lies on the surface of the body</li></ul>		ies outside the body outside the body
95 )A bomb at rest explodes. The centre of m	ass of the system	
<ul><li>1) Describes a parabola</li><li>3) Horizontally</li></ul>	2) Vertically	upwards at rest
96). Antigen presenting cells are a) Dendritic cells	b) Activated	macrophages
c) B-Cells d)Dendritic cells, activated	macrophages and B cel	ls.
97) Which of the following chemicals is NOT	'involved in photocher	nical smog formation
$1)SO_2$ 2) $O_3$	3)NO <sub>2</sub> 4)NO	
98). Gamma interferons are produced by		
a) B lymphocytes b) Macrophages	c) T lymphocytes	d) Dendritic cell
99) The symbol of an element is Une. Its atom	ic number is	
1)110 2)109 3)101	4)108	
100). An example for the less organised second	dary lymphoid tissue	
a) Thymus b) Spleen c) Lymph nodes	d) Mucosal - a	associated lymphoid tissue
		11

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FREESHIP EXAMINATIONTEST

## 2020-21



Total Marks: 100

Name of the student: A Ramakacishna

Avanthi Freeship No: ATPS 2020001

Duration: 180min
Date: |7|1|2020

1. Maximum transpiration is by

1) Stomata 2) Cuticle

3) Lenticels

4) Cuticle & Lenticels

2. Scotoactive stomata

1) Opens during day time

2) Opens during night time

3) Opens during Day & Night

4) Never opens

3. Dumbbell shaped guard cells are seen in

1) All monocots

2) Liliaceae 3) Graminaceae

4) Dicotyledons

(24

4. Source of protons during stomatal opening is

1) Water

2) Sugars

3) Light

4) Malate

5. During opening of stomata, into the guard cells

I: Entry of K+ is active

II: Entry of Cl is active

III: Export of H+ is active

IV: Entry of H<sub>2</sub>O is active

Correct statements are

1) I & II

2) II & III

3) I & III

4) I & IV

6. Transpiration can be demonstrated by

1) Ganong's potometer

2) Bell-jar experiment

3) Hydrilla experiment

4) Barometer

7. The factors that show inversely proportional relationship with transpiration

1) Temperature & Humidity

2) Availability of water & Very high velocity of wind

3) Light & Temperature

4) Humidity & Very high velocity of wind

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8.	Assertion (A): S	(2	2					
	Reason(R): Spi	nes are adoptions of	xerophytic pla	nts				
	1) Both A and R	are true and R is the o	correct explanati	on of A.				
	2) Both A and R	are true but R is not the	he correct expla	nation of A.				
	3) A is true, R is false 4) A is false, R is true							
	× u		*					
9.	Natural anti tra	nspirant in plants is			(4)			
	1) Auxin	2) Malate	3) Pro	oton 4) A	ABA			
10.	Transpiration p	lays an indirect role	in		(34)			
	1) Uptake & Trai	nsport of minerals	2) Absorption	n of water				
	3) Translocation	of solutes	4) Distribution	on of water				
11.		a 'necessary evil '- s	stated by		(4)			
	1) Slatyer	2) Arnon	3) Knop	4) (	Curtis			
12.	Phenyl mercurio	e acetate (PMA) is			(34			
	1) An antibiotic u	ised as an antitranspir	ant					
	2) A fungicide us	sed to increase transpir	ration					
	3) A fungicide us	ed as an antitranspira	nt	4.9				
	4) A growth horn	none used as an anti tr	ranspirant.		g.			
13.	Enzymes that use	e ATP for their activ	itv is		(25			
	1) Kinases	2) Synthetas	7		( )			
	3) Transferases	. 4) Hydrolas						
14.	* 1	r in carboxy peptidas						
	1)Fe	2)Mn	3) Zn	4)Mg	<i>y</i> *			
				- 1	. /			
15.	Third number in	the enzyme nomenc	lature indicates	į				
	1)Sub-Subclass	2)SubClasses 3)M	lajor Classes	4)Serial number	r .			
				X X				

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Protein part in a holo enzyme is 2)Simple enzyme 1) Apoenzyme 4)Inducive enzyme 3)Conjugated enzyme The reaction  $CO_2 + H_2O \leftrightarrow H_2CO_3$  requires 17. 2)An enzyme 1) No enzyme 4) Very low temperatures 3) Very high temperatures 18. . Immunity that protects against intracellular bacteria, virus & cancer cells is b) Humoral immunity a) Innate immunity d) Cell mediated immunity c) Non-specific immunity Stomatal Index is 19. 1) Ratio between stomata and leaf surface area 2) Ratio between stomata per unit area and sum of epidermal cells and stomata of that unit are 3) Ratio between epidermal cells and stomata of that unit area 4) Ratio between sum of stomata and epidermal cells of a unit area and stomata of that area. Ascent of sap is movement of water from 20. 2) Xylem into leaves 1) Soil into Xylem 4) Leaves into atmosphere 3) Xylem into atmosphere 21. Guttation is 1. Evidence of root pressure. 2. Movement of water through the apoplast. 3. Movement of soluble organic materials through plants 4. Negative pressure created by transpiration. When water potential of accessory cells increase 22. 2) Stomata closes 1) Stomata open 4) Stomata neither opens nor closes 3) Stomata either opens or closes True statement regarding opening of stomata 23. 2) Water potential gradient is essential 1) Wind is essential 4) Protons are essential. 3) Light is essential.

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24. True statement	t regarding environ	mental factors is	(3/)
I: High wind velo	ocity increases trans	piration continuously	
II: As available v	water is pure rate of	transpiration is maxim	ım.
III: Atmospheric	pressure increases tra	anspiration.	
IV: Light increa	ses transpiration to o	2.	
1)I & II	2) II & III	3) Only IV	4) IV & II
25. Apparently the s	source of energy for	keeping stomata ope	n is ( )
1. Ion transfer	2.Trans	spiration	
3. Photosynthesis	4.Hydr	ogen bond formation	
26. Transpiration ra	ite is inversely prop	ortional to	(4)
1)Temperature 2)			nd speeds
,	,	,	
27. Stomatal opening	and closing depen	ds on	( U)
1)pH changes		2) Guard cell siz	ze
3) Size of stomatal ch	amber	4) Solute concer	ntration of guard cells
28 .During stomatal c	losing		
2) Protons move activ	vely into guard cells	2) Protons moves pass	sively into guard cells.
3) Chloride moves pa	ssively into guard ce	ells. 4) Malate move	s to adjacent cells.
			•
29. The reason that a	column of water in	a tall tree does not s	ink because of its weightis(
1. The tensile strength	n of a column of wat	er.	
2. Bubbles form that	are too large to be tra	ansported	
3. The presence of str	ong ion concentration	ons near the top of the t	ree
4. The formation of h	ydrogen bonds with	the plants vessels	
30 .Stomata open dur	ing day and closes	during night are calle	d as (   \frac{1}{2}
1)Photoactive	2) Scotoactive	e	
3)Amphiactive	4) Hypoactive	2	11
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			PHARMACE Abdullapurmet (M), abdullapurmet (M), bunthapally (V), Abdullapurmet (M), Telangana
		G	unthapally (V), Aboutage and R.R. Dist. Telangana.

2 5												
31)Rate	of the	transpi	iration	from th	ie upper s	surfa	ce and	lower s	urface	of the		
leaf c	an be k	nown l	оy			(24)						
1. Bel	l jar exp	erimen	t					hloride	_	nent		
3. Gar	nong's p	otomet	er					s's suns		11	. J. la alara	
32) Ass	ertion (	( <b>A):</b> Th	e digest	ive action	on of saliv	vary a	mylase	stops w	hen the	swallowe	d bolus	
	rs the st										17	
					ctivated a				ic juice			
					s correct e							
b. Bot	th A and	R are	true but	the R is	s not corre	et exp	olanatio	n of the	A			
c. A i	s true, b	ut the F	R is false	e								
d. Bo	th A and	l R are	false									
33) N	Iatch th	e follo	wing							(P)	7	
Col	lumn - ]	*			Column	n-II						
A)	Haust		y #		i) Palate	e						
B)	Uvula	a			ii) Naso	palati	ine duc	t				
C)	Sacci	ılus rot	undus		iii) Pha	rynx						
D)	Jacob	son's c	rgan		iv) Colo	iv) Colon						
					v) Ileur	n						
	Α	В	C	В			A	B	C	D		
a.	IV	I	V	II		b.	IV	I	V	III	·v	
c.	I	IV	II	V		d.	I	IV	III	V		
	•									(	CH	
34) Th	e papil	lae arr			ircle at th			ngue ar	e			
a.	Fungifo	rm	b. Fi	liform		c. Fo	liate		d. C	ircumvalla	ite	
						_		•		nongo fro	m C 14	
					the stom	ach v	vall in t	ne cori	ect seq	uence mo	III (C)	
	outer to					<i>C</i> 1	C1-		000			
	Circular				erosa			ris muc		dinal muse	ole fibers	
D. 0	Oblique	muscle	fibers	E. C	Columnar	epithe	lium	F. 1	Jongnu	ulliai ilius	JIC HOOFS	
G. 5	Submuc	osa				_		D C F	מו	-F-A-D-C	CF	
a. E	3-F-A-D	-G-C-E	E b. E	8-A-F-D	-G-C-E	c. B	-F-A-G	-D-C-E	a. B	-F-A-D-C	,-U-E	
									//	PRINC	TPAL	Or
	,							A	VANT	الما الما	AL SCIENCE	S
	4,							G	PHAR	ally (V), A	bdullapurmet Telangana.	(ivi)
									F	R.R. Dist.		

36).	The cells that a	re not found in the gastric gland	d of rabbit are	(a)
	a.Oxyntic cells	b. Zymogen cells	c. Parietal cells	d. Kupffer cells
				COUX
37)	Choose the co	rrect statement		
	a.Deficiency of	protein intake causes kwashiorko	or	
	b.Deficiency of	fat intake causes marasmus dise	ase	
	c.Deficiency of	magnesium causes seborrheic ste	erility	
	d.Deficiency of	niacin causes seborrheic dermat	itis	
38	) choose the co	rrect answer		0.18
				(d)
	alivary glands	Character		
	•	Situated below the eye orbit		
	-	- Open through Wharton's duct		•
		- Open through Stensen's duct		
]	(V) Sub lingual -	Situated below the tongue		
	a. I and II	b. II and III c. III	and I d. I an	nd IV
*				
39)	Amino acids ar	e the only end products by the	action of which of the	following enzymes acts
	on the protein	in constituents?		(C)
	- ,	ase b. Carboxypeptidase c. Tri	peptidase d. Dip	peptidase
	,	,		$\sim$
		g organ of the body is	J. Dana mamayy	Copp
a	. Liver	b. Pancreas c. Spleen	d. Bone marrow	
41)	In normal cond	itions, the lower oesophageal sp	ohincter prevents the	regurgitataion /
	offood from the			
8	a.Cardiac stomacl	n to pyloric stomach	b. Cardiac stomach t	to fundic stomach
	c. Cardiac stoma	ch to oesophagus	d. Pyloric stomach to	o cardiac stomach
42)	Formation of	f glucose in liver from non-carb	ohydrates is called	Cdy
	a.Glycogenesi	b. Gluconeogenesis	c. Lipogenesis	d. Glycogenolysis
				11

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## Match the followings

#### Cells

#### Secretion

- A) Zymogen Cells
- I) Mucus
- B) Neck Cells
- II) Pepsinogen
- C) Parietal Cells
- III) Gastrin
- D) G-Cells
- IV) Castle's intrinsic factor
- Α III

III

В

IV

D

II

b.

A

II

- В
- C

I

D

III

a.

c.

- I
- II

I

- d. II
- IV I
- IV III

## 44) Read the following

- I. Health and vigour of epithelial tissues-vitamin A
- II. Health and integrity of muscles-vitamin E
- III. Integrity of endothelium -vitamin C
- IV. Functioning of gonads-vitamin E

Which of the above are true?

- a. All are true
- b. All except IV
- c. All except II
- d. All are false

#### Which of the following substances are absorbed into the cells and into blood by diffusion? 45)

a.Amino acids

b. Fructose

c. Short chain fatty acids

d. Long chain fatty acids

## 46) Following are the enzymes that act up on proteins. Arrange them in a sequence of their action

- a) Dipeptidase
- b) Pepsin
- c) Carboxypeptidase d) Tripeptidase
- e) Trypsin

- a. e-b-d-c-a
- b. b-e-c-d-a
- c. c-a-d-b-e
- d.d-c-a-b-d

Mineral required for the formation of insulin is



b. Iodine

c. Cobalt

d. Copper

- Marie - V					
48)	Proteolytic enzyme	s which act in a	cidic medium are		CCS
	a.Chymotrypsin, re	nnin	b. Pepsin,	Rennin	
	c. Pepsinogen,Tryp	sinogen	d. Pepsin,	Trypsin	
49)	Correct statement f	rom the followi	ng is	,	(C)
	a.Pyloric sphincter re	egulates the flow	of food in to the de	uodenum	
	b.Lower oesophagea	l sphincter preve	ents backward flow	of food into di	uodenum
	c.Pylorus is present b	etween pyloric	stomach and fundic	stomach	
	d.Cardia is present b	etween cardiac s	stomach and fundic	stomach.	
50)	Stensen's duct and	wharton's duct	are associated wit	h the followir	ng glands ( A)
	a.Parotid & sub max	20.	b. Parotid & subl		
	c. Sub maxillary &	sublingual	d. Sublingual & Ir	ıfra orbital	
51)	Dietetics' is related	d to the study of	ľ		CAN
	a.Nutritional disorde	ers	b. Chemical natur	re of food	(01)
	c. Food stuff and nu	utrition	d. Minerals & Vi	tamin	
52)	Decreased blood pro	essure, low puls	e rate, lowers than	normal bod	y temperature and 😝 🚩
	mental retardation	are the sympto	oms of		
	a.Obesity	b. Marasmus	c. Kwashi	orkor	d. Carcinoma
53).	symptoms are indic	cative of pneum	onia?		ne patient. Which groups of
	a. Difficulty in re-	spiration, fever,	chills, cough, heada	ache	, ,
	b. Constipation, a	bdominal pain, o	eramps, blood clots		
	c. Nasal congestion	on and discharge	, cough, sore throat	, headache	
	d. High fever, wes	akness, stomach	pain, loss of appeti	te and constip	ation
54)	Antibodies present	in colostrum wl	nich protect the ne	w born from	certain diseases is of
	a. Ig G type	b. Ig A type	c. Ig D type d. Ig	g E type	•
55).	Identify the third lin	ne of defense fr	om the following		(c)
	a) NK cells	b) Tears	c) T cells	d) 1	Phagocytes
56)	The chemical test th	at is used for d	iagnosis of typhoic	d is:	(d)
	a. ELISA-Test	b. ESR – Test	c. PCR – Test d. W	Vidal-Test \	
			<b>#</b>	, a NT	PRINCIPAL JUTE OF SCIENCES (M).  MACEURAL SCIENCES (M).

57)	() A current is flowing due north along a powerline. The direction of the magnetic						
	field above it, negl	ecting the earth's fie	eld is:	(1)			
	(1)North	(2)East	(3)South	(4)West			
58)		nibit metastasis	le ary lymphoid organs	(4)West			
59)	A square conducting	gloop of length L on a	a side has a current'i'	in it. The magnetic			
	induction at the cen (1)Independent of L	tre of the loop is	(2)Directly proport	ional L	ĭ		
	(3)Inversely proportion	nal to L	(4)Inversely propor	tional to L <sup>2</sup>			
60).	could be that:		sed as unhealthy by a p	sychiatrist, the reason			
	a. The patient was not eff	icient at his work					
*	b. The patient was not eco	onomically prosperous					
	c. The patient shows behavior	avioral and social malad	justment				
	d. He does not take interes	est in sports					
61)	When no external force	is acting on a system of	f particles, the centre of	mass of the system (3	3)		
	1) Remains at rest only 3) Moves with constant	nt velocity or will be at i	•	constant velocity only with variable velocity			
62)	Field at the centre of	circular coilo fradiu	sr,through which a cu	irrentI flows is (3)			
	(1)Directly proportion	naltor	(2)Inversely propor	rtionaltoI			
	(3)Directly proportion	altoI	(4)Directly proport	ionaltoI <sup>2</sup>			
63)	Lines of magnetic field	l around a current ca	rrying straight condu	ictor will be (3)			
	1) Straight linesparallel t						
	2) Circular in a plane par	allel to conductor	1				
	<ul><li>3) Circular in a plane per</li><li>4)Straight perpendicular</li></ul>	-	AVANT	PRINCIPAL  H! INSTITUTE OF  MACEUTICAL SCIENCES  MACEUTICAL SCIENCES  ALGUNAPHIME  ALGUNAPHIME	:		
	2.	T <sub>k</sub>	Gunthap FHAR	H! INST. SCIENCES MACEUTICAL SCIENCES MACEUTICAL SCIENCES ally (V), Abdullapurmet (M ally (V), Abdullapurmet (M 2.R. Dist. Telangana.			

- 64) Magnetic induction at a point due to a small element of current carrying conductor is
  - 1) Inversely proportional tothesquare of the distance of the point fromt the conductor
  - 2) Inversely proportional to the distance of the poin tform the conductor
  - 3) Directly proportional to the square of the length of conductor
  - 4) Directly proportional to the square of the current
- 65) Imagine a man swimming along a current carrying conductor in a direction opposite to that of current and facing the conductor. A magnetic needle free to rotate in a horizontal plane is mounted on a stand under the wire. Then
  - 1) The north pole of the needle e will deflect towards his left hand
  - 2) The south pole of then needle willd deflect towards his left hand
  - 3)Then needle will not deflect
  - 4) Then needle will oscillate
- 66) Statement A: current is scalar.

StatementB:currentelementisvector.

- 1)A and B are true 2)A and B are false
- 3)Only A is ture
- 4)Only B is true
- 67) Statement(A): Ampere's laws tates that thel ine integral of B. dlalonga closed path Round the current carrying conductor is equal to  $\mu_0 i$ Surface bounded by the closed path).

Statement(B): Ampere's law can be derived from Biotsavart's law.

- 1)A is true B is false 2)A is false B is true 3)A and B are true 4)A and B is false
- 68) A vertical straight conductor carries a current vertically upwards. A point P lies to the east of it as a small distance and another point Q lies to the west at the same

distance. The magnetic field at P is

- a. Greater than at Q
- b.Same as at Q
- c.Less than at Q
- d.Greater or less than a tQ depending upon the magnetic field of the current

69) Which of the following is a p	pair of viral diseases? $(3)^{\vee}$
a) Typhoid and tuberculosis c) Common cold and AIDS	b) Ring worm and AIDS d) Dysentery and common cold
	sporozoites of the malarial parasite? (2)
, was you look for the	sporozoites of the majarial parasite?
<ul><li>a) RBCs of Humans suffering</li><li>b) Saliva of infected female an</li><li>c) Saliva of Infected female cu</li><li>d) Spleen of infected humans.</li></ul>	opheles mosquito
71) The current through a circ	cular coil appears to be flowing in clock-wise direction for
an observer The manner	(2)
	ic induction at the centre of the coil is:
e. Perpendicular to the pl	ane of the coil and towards the observer
f. Perpendicular to the pl	ane of the coil and away from the observer
g. Parallel to plane of the	
h. Inclinedat450at the pla	ne of coil
72) A long wire carries a ste	ady current.It is bent into a circle of one turn and the
magnetic field of the control	and current. It is bent into a circle of one turn and the
magnetic field at the centre	e of the coil B.It is then bent into a circular loop of n
turns. The magnetic field at 1	the centre of the coil will be:
$1)nB   2)n^2B$	$3)2nB$ $4)2n^{2}B$
-	
73)The magnetic field at the cer	atre of the current carrying coilis

1)Directed normal to plane of the coil

3)Zero

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2)Directed parallel to plane ofthe coil

4)Radial from centre of the coil

2.						
*	74) The electr	ic current ir	ı a circular co	oil of two turns pro	duced a magnetic indu	
	0.2T at its	s centre. The	coil is unwo	and and rewound i	n to a coil of four turns	ction of
	magnetic i	nduction at	the centre of	the soil new in its	n to a con of four turns	5. The
	the coil)	- addion at	the centre of	the con now is, in t	esla (if the same currer	it flows in
	the conj			•	(4)1	
	1)0.2	2)0	0.4	3)0.6	4)0.8	
	75) In an atom	m the electro	on has a time	period of 0.16 x 10	–15 <sub>s</sub> in a circular orbi	t of radius
						t of radius
	0.5 A <sup>0</sup>	The magnet	ic induction a	it the centre of the	orbit will be (in tesla)	(1)
	1)12.56		25.6	3)1.256	4)25.12	
7	6) Acircular	arc of wire s	ubtends an ai	ngle $\pi/2$ at the centr	e. If it carries a curren	t i and its
						runu ns
	1)μ <sub>0</sub> i			gnetic field at the c	centre of the arc is	16)
···	1)1401	2)μ₀i2R	3) $\mu_0 i$ 4) $\mu_0 i 8$	2		
7	7) The ratio of	de Broglie wa	ve lengths of t			
		and and wa	ive lengths of t	wo particles, having	mass ratio 1:3 and kine	eticenergy
	ratio 2:1 is			4.3	(3)	3
	1)3:2					
	2)√3 : √2				,	
	3) √2 : √3					
	4)2 : 3					
<b>78</b> )	In lanthanides	. With increas	e in atomic nu	mbaaata t	_	01/
	element X, wh	ot V9	e m atomic nu	mber atomic radius	decreases, except for the	(2)
	1)Gd	at X?				20
	2)Eu		i		11	
	3)Tm					
					POTNCIPAL	TUTE OF
	4)Dy				AVANTH! NST	CIENCES (M)
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Dipole moment order of which of the following pairs of molecules is not correct? **79**)′ 1)HF > HC1  $2)H_2S > CO_2$ 

3) $NH_3 > NF_3$ 

 $4)CH_4 > CHCl_3$ 

X and Y are the two covalent molecules in which the hybridization of the central atoms is 80) same, but shapes are different. X and Y are

a.XeF<sub>4</sub>, NH<sub>3</sub>

b.XeF<sub>2</sub>, PF<sub>5</sub>

c.BF<sub>3</sub>, H<sub>2</sub>O

d.CH<sub>4</sub>, BeCl<sub>2</sub>

81) At same temperature and pressure, the rate of diffusion of gas 'X' is  $3\sqrt{3}$  times that of agaseous hydrocarbon of molar mass 54g mol<sup>-1</sup>. The molar mass of X in g mol<sup>-1</sup> is

1)16

2)2

3)32

4)28

82) From the given reaction

 $2KMnO_4 + 3H_2SO_4 + 5H_2O_2 \ \Box \ K_2SO_4 + 2MnSO_4 + 8H_2O + 5O_2$ 

Find the normality of H<sub>2</sub>O<sub>2</sub> solution, if 20mL of it is required to react completely with 16mLof 0.02 MKMnO<sub>4</sub> solution. (Molar mass of KMnO<sub>4</sub> = 158 g mol<sup>-1</sup>)

 $1)4 \times 10^{-2} \,\mathrm{N}$ 

 $2)2 \times 10^{-2} \text{ N}$ 

 $3)6 \times 10^{-2} \text{ N}$ 

4)8  $\times 10^{-2}$  N

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83) At the temperature T(K) for the reaction  $X_2O_{4(l)} \rightarrow 2XO_{2(g)} \Delta U = xkJ \text{ mol}^{-1}, \Delta S = y Jk^{-1}\text{mol}^{-1}$ .

Gibbs energy change for the reaction is

(Assume X<sub>2</sub>O<sub>4</sub>, XO<sub>2</sub> are ideal gases)



$$2)1000 x + T (2R - y)J mol^{-1}$$

$$3)x + T (2R - y)J mol^{-1}$$

$$4)x + 2R (T - y)J mol^{-1}$$

84) Arrange the aqueous solutions of the following salts in the increasing order of pH



CuSO<sub>4</sub> NaCN KCl

- I II
- 1)I < II < III
- 2)I < III < II
- 3)III < II < I
- 4)II < III < I
- 85) Be and Al show similarities in properties due to diagonal relationship except in the property X given below. What is X?



1) Both form basic oxides and hydroxides

III

- 2) Ions of both have strong tendency to form complexes
- 3) In vapour phase chlorides of both have Cl bridged chloride structure
- 4)Chlorides of both are soluble in organic solvents
- 86) In the structure of  $B_2H_6$ , the number of  $BH_2$  groups present in one plane, and the number of B-H bonds, B-B bonds, B-H bridge bonds are respectively



2)3, 2, 2, 2

3)2, 4, 0, 2

4)2, 4, 2, 0

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## 87) Identify the incorrect statements from the following



I. Tin in +2 state acts as reducing agent while lead in +4 state acts as strong oxidizing agent

- II. Silicon exists as both  $[SiF_6]^{2-}$  and  $[SiCl_6]^{2-}$  forms
- The hybridization of carbon in fullerene is sp<sup>3</sup> III.
- IV. Among Ge, Sn and Pb lowest melting point is for Sn
- 1)I, IV 2) II,IV 3) II,III 4) III,IV

88). Methane of the polluted air reacts with ozone and forms the compound



$$H-C-H,CO_2$$

1)

$$H-C-H$$
,  $CH_2=CH-CHO$ 

- 3)  $CH_2 = CH-CHO, C_2H_5CHO$
- 4) CO<sub>2</sub>, H<sub>2</sub>O

Assertion (A): Propene on addition with hydrogen bromide in the presence of peroxide 89) gives1-Bromopropane as the major product

Reason (R): 1-Bromopropane is the major product because it is formed through the stablecarbocation

The correct answer is

- 1)(A) and (R) are correct, (R) is the correct explanation of (A)
- 2)(A) and (R) are correct but (R) is not the correct explanation of (A)
- 3)(A) is correct but (R) is not correct
- 4)(A) is not correct but (R) is correct

90). A metal crystallizes in two phases, one as fcc and other as bcc with unit cell edge lengths of 3.5 A and 3.0 Arespectively. The ratio of density of fcc and bcc phasesapproximately is

- 1)1.5:1.0
- 2)1.0:1.5
- 3)1.26:1
- 4)1:1.26

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91. Which of the following represents the hyperconjugation effect?

$$1. \ge C = C \le + CN \longrightarrow \ge C - C \le C$$

<sup>2</sup>  $CH_3 - CH_2 - CH_2 \rightarrow C1$ 

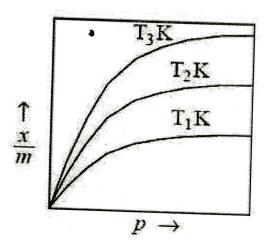


- 1) 1 2) 2 3) 3 4) 4
- 92). Freundlich adsorption isotherms for the physical adsorption of a gas at temperature

 $T_1, T_2$  and  $T_3$  are shown in the graph given below. The correct relationship between

 $T_1$ ,  $T_2$  and  $T_3$  is





 $1)T_1 < T_2 < T_3 \qquad 2)T_3 < T_1 < T_2 \quad 3)T_3 < T_2 < T_1 \qquad 4)T_2 < T_1 < T_3$ 

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93). The ore which is concentrated by leachi	ng (2)
1)PbS	
2)Al <sub>2</sub> O <sub>3</sub> , 2H <sub>2</sub> O	
3)SnO <sub>2</sub>	
4)Fe <sub>2</sub> O <sub>3</sub>	•
94) Centre of mass of a body	(4)
<ul><li>1)Always lies inside the body</li><li>3) Always lies on the surface of the body</li></ul>	2) Always lies outside the body 4) May lie inside or outside the body
95 )A bomb at rest explodes. The centre of mas	ss of the system (43
<ol> <li>Describes a parabola</li> <li>Horizontally</li> </ol>	<ul><li>2) Vertically upwards</li><li>4) Is at rest</li></ul>
96). Antigen presenting cells are a) Dendritic cells	b) Activated macrophages
c) B-Cells d)Dendritic cells, activated m	acrophages and B cells.
97) Which of the following chemicals is NOT in	nvolved in photochemical smog formation
1) $SO_2$ 2) $O_3$	3)NO <sub>2</sub> 4)NO
98). Gamma interferons are produced by	(3)
a) B lymphocytes b) Macrophages	c) T lymphocytes d) Dendritic cell
99) The symbol of an element is Une. Its atomic	number is

100). An example for the less organised secondary lymphoid tissue

3)101

1)110

2)109

a) Thymus b) Spleen c) Lymph nodes d) Mucosal - associated lymphoid tissue

4)108

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#### FREESHIP EXAMINATIONTEST 2020-21



Name of the student: D. Swapna

Avanthi Freeship No: ATPS 2020011



1.	Maximum transpiration is by		(1)
	1) Stomata 2) Cuticle	3) Lenticels 4) Cuticle	e & Lenticels
2.	Scotoactive stomata		(2)
	1) Opens during day time	2) Opens during night t	ime

3. Dumbbell shaped guard cells are seen in

3) Opens during Day & Night

- 1) All monocots
- 2) Liliaceae 3) Graminaceae
- 4) Dicotyledons

- 4. Source of protons during stomatal opening is
  - 1) Water
- 2) Sugars
- 3) Light

4) Malate

Duration: 180min

Date: 4/12/2020

5. During opening of stomata, into the guard cells

I: Entry of K+ is active

II: Entry of Cl is active

III: Export of H+ is active

IV: Entry of H<sub>2</sub>O is active

Correct statements are

- 1) I & II
- 2) II & III
- 3) I & III
- 4) I & IV

4) Never opens

- 6. Transpiration can be demonstrated by
  - 1) Ganong's potometer
- 2) Bell jar experiment
- 3) Hydrilla experiment
- 4) Barometer
- 7. The factors that show inversely proportional relationship with transpiration
  - 1) Temperature & Humidity
  - 2) Availability of water & Very high velocity of wind
  - 3) Light & Temperature
  - 4) Humidity & Very high velocity of wind



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8.	Assertion (A): S		(2)				
	Reason(R): Spines are adoptions of xerophytic plants						
	1) Both A and R are true and R is the correct explanation of A.						
	2) Both A and R	are true but R is not t	he correct explai	nation of A.			
	3) A is true, R is	false 4) A	is false, R is tru	ue			
			*				
9.	Natural anti tra	inspirant in plants is			(U)		
	1) Auxin	2) Malate	3) Pro	ton	4) ABA		
10.	Transpiration p	lays an indirect role	iņ		(.3)		
	1) Uptake & Tra	nsport of minerals	2) Absorption	n of water			
	3) Translocation	of solutes	4) Distributio	on of water			
11.	Transpiration is	s a 'necessary evil '- s	stated by		(4)		
	1) Slatyer	2) Arnon	3) Knop		4) Curtis		
	-, <b>,</b>	- 2) I mion	5) Knop		4) Curus		
12.	Phenyl mercurio	c acetate (PMA) is			(3)		
	1) An antibiotic u	used as an antitranspir	ant		0		
	2) A fungicide us	sed to increase transpir	ration				
	3) A fungicide us	sed as an antitranspirar	nt	4.6			
	4) A growth horn	none used as an anti tr	anspirant.				
10	-				/		
13.	_	e ATP for their activi			(3)		
	1) Kinases	2) Synthetas					
	3) Transferases	. 4) Hydrolas			/		
14.		r in carboxy peptidas		(	(2)		
	1)Fe	2)Mn	3) Zn	4)Mg			
15.	Third number in	the enzyme nomencl	ature indicates		(3)		
	1)Sub-Subclass	2)SubClasses 3)M		4)Serial num	( 2 ) ( 3 ) ( aber		
					1		

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16. Protein part in a holo enzyme is 2)Simple enzyme 1) Apoenzyme 3)Conjugated enzyme 4)Inducive enzyme 17. The reaction  $CO_2 + H_2O \leftrightarrow H_2CO_3$  requires 2)An entyme 1) No enzyme 4) Very low temperatures 3) Very high temperatures 18. . Immunity that protects against intracellular bacteria, virus & cancer cells is a) Innate immunity b) Humoral immunity c) Non-specific immunity d) Cell mediated immunity 19. Stomatal Index is 1) Ratio between stomata and leaf surface area 2) Ratio between stomata per unit area and sum of epidermal cells and stomata of that unit are 3) Ratio between epidermal cells and stomata of that unit area 4) Ratio between sum of stomata and epidermal cells of a unit area and stomata of that area. 20. Ascent of sap is movement of water from 2) Xylem into leaves 1) Soil into Xylem 4) Leaves into atmosphere 3) Xylem into atmosphere 21. Guttation is 1. Evidence of root pressure. 2. Movement of water through the apoplast. 3. Movement of soluble organic materials through plants 4. Negative pressure created by transpiration. 22. When water potential of accessory cells increase 2) Stomata closes 1) Stomata open 4) Stomata neither opens nor closes 3) Stomata either opens or closes

2) Water potential gradient is essential

4) Protons are essential.

True statement regarding opening of stomata

1) Wind is essential

3) Light is essential.

23.

24.	T				1 -
24.			ing environmen		(2)
				ion continuously	$\boldsymbol{\nu}$
				piration is maxim	um.
			increases transpi		
			piration to certai		
	1)I & II	2)	II & III	3) Only IV	4) IV & II
		36			
25.	Apparently t	he source of	energy for kee	ping stomata ope	n is (3)
1. I	on transfer		2.Transpirat		
3. I	Photosynthesis		4.Hydrogen	bond formation	
26	Transpiration	n mata is inv	owaalw. m		(1) ·
	Transpiration  Temperature		ersely proportio		
	Tomporature	2) Light	3) Gentie bree	ze 4) High wir	id speeds
27.	Stomatal oper	ning and clo	sing depends on	l.	(2)
	H changes	S	9 1	2) Guard cell siz	
3) §	Size of stomata	l chamber			tration of guard cells
	ouring stomata			,	( \ )
		•	onard cells 2) Pr	otons moves pass	vely into guard cells.
			to guard cells.		to adjacent cells.
		Parent or in	o guara cono.	i) ividiate moves	to adjacent cens.
29. 7	The reason tha	ıt a column	of water in a tal	II tree does not si	nk because of its weightis(1)
	he tensile strer			a tree does not si	and because of its weightis(1)
			ge to be transpo	rted	
				ar the top of the tr	ee
			onds with the pl		

30 .Stomata open during day and closes during night are called as

2) Scotoactive

4) Hypoactive

1)Photoactive

3)Amphiactive

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31)R	31)Rate of the transpiration from the upper surface and lower surface of the										
lea	f can be	known	by						( 2	)	
1. F	1. Bell jar experiment 2.Coba						chloric	le expe	riment C		
3. 0	Ganong's	potomo	eter			4.Ganor	ng's sur	screen			
<b>32)</b> A	Assertion	( <b>A</b> ): T	he dige	stive act	ion of salivar	y amylas	se stops	when th	ne swallo	wed bolus	
Er	iters the s	stomach	1						1		
Rea	Reason (R): Salivary amylase is inactivated at the low pH of gastric juice										
a. E	oth A an	d R are	true an	d the R i	s correct expl	anation	of the A				
b. E	Both A an	nd R are	true bu	t the R is	s not correct e	xplanati	on of th	ne A			
c. A	is true,	but the	R is fals	se							
d. E	Both A an	nd R are	false							a	
33)	Match t	he follo	wing	(I	3						
C	olumn -	I			Column-II						
A)	Haus	stra			i) Palate						
B)	Uvul	a			ii) Nasopala	itine duc	t				
C)	Sacc	ulus rot	undus		iii) Pharynx						
D)	Jacol	bson's c	organ		iv) Colon						
					v) Ileum						
	Α	В	C	В		A	В	C	D		
a.	IV	I	V	II	b.	IV	I	V	III		
c.	I	IV	II	V	d.	I	IV	III	V		
	•							(			
			•		rcle at the ba		ngue ar		-		
а	.Fungifo	rm	b. Fi	liform	c. Fo	oliate		d. Ci	rcumvall	ate	
25) A		1 C 11			1				C	C07	
				arts in t	he stomach v	vall in t	ne corr	ect sequ	uence fro	om (	
	outer to			D C		<b>τ</b> 1	•				
	Circular 1			B. Se		/luscular				1 61	
	Oblique 1		Iibers	E. Co	lumnar epithe	lium	F. L	ongitud	inal mus	cle fibers	
	Submuco		1.5			T . C	D 0 D			,	
a. E	8-F-A-D-	G-C-E	b. B-	A-F-D-(	j-C-E c. B	-F-A-G-	D-C-E	d. B-	F-A-D-C	:-G-E	
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	K							A	VANTE	ACEUTICAL S	CIENCES (M),
	•	•						G	unthapa	NACEUTICAL S NIV (V), Abduil R. Dist. Telan	gana.
									K.		42

36). The cells that are not	found in the gastric glan	d of rabbit are	
a.Oxyntic cells	b. Zymogen cells	c. Parietal cells	d. Kupffer cells
37) Choose the correct	statement( A )		
a.Deficiency of protein	in intake causes kwashiorko	or	
b.Deficiency of fat in	take causes marasmus dise	as <b>e</b>	
c.Deficiency of magn	esium causes seborrheic ste	erility	
d.Deficiency of niaci	n causes seborrheic dermat	itis	
38) choose the correct	answer (D)		
Salivary glands Cha	racter		
I) Infra-orbital - Situa	ted below the eye orbit		
II) Parotid - Open	n through Wharton's duct		¥
III) Sub maxillary - Ope	en through Stensen's duct		
IV) Sub lingual - Situat	ed below the tongue		
a. I and II	o. II and III c. III	and I d. I	I and IV
•			<i>(</i> -)
39) Amino acids are the	only end products by the	action of which of t	he following enzymes acts
on the protein con	stituents?		
a.Aminopeptidase l	o. Carboxypeptidase c. Tr	ipeptidase d.	Dipeptidase
40) The deterifying one	on of the body is		( D ) 1
40) The detoxifying organization a. Liver b. F	Pancreas c. Spleen	d. Bone marro	ow July
41) In normal conditions	the lower oesonhageal s	nhincter prevents t	he regurgitataion (D)
offood from the	, the lower ocsophagear s	paraeter provenus s	
offood if oill the			
a.Cardiac stomach to py	loric stomach	b. Cardiac stomac	ch to fundic stomach
c. Cardiac stomach to	_		th to cardiac stomach
42) Formation of gluce	ose in liver from non-cark	oohydrates is called	(0)
a.Glycogenesis	b. Gluconeogenesis	c. Lipogenesis	d. Glycogenolysis
		AVA P Gunt	PRINCIPAL INSTITUTE OF HARMACS FIGAL SCIENCES Hapaliy (V), Abdullapurmet (M), R.R. Dist. Telangana.

43	, n	Match the	a follow	dna.	(n)	1							
75		Cells	e lollow	ings Secre	etion								
	A)	Zymogen	n Cells	I) Mu								*	
	B)	Neck Cel	ls		psinogen								
	-	Parietal C		III) G	=							*	
		G-Cells		ŕ	astle's intrin	sic factor							
		Α	В	C	D	isic factor	A	В	0	ъ.			
	a.	III	I	IV ·	II	la.			C	D			
		III	IV	ž		b.	II	IV	Ι	III			
	c.	111	1 V	I	II	d. ,	II	I	IV	III			
44)	R	ead the fo	ollowin	g	(B)								
	I. H	lealth and	vigour	of epith	elial tissues-	vitamin A	A				,		
	II. I	Health and	d integr	ity of mi	uscles-vitam	in E							
	III.	Integrity	of endo	thelium	-vitamin C								
٠	IV.	Function	ing of g	onads-v	itamin E								
	Wh	ich of the	above	are true?									
		all are true			except IV	c. All	l except	II	d. Al	l are fals	e		
45)	W	hich of t	he follo	owing su	bstances ar	e absorb	ed into	the cell	Is and i	nto bloo	d by dif	fusion?	(B)
		mino acid						uctose			·	~	
	c. S	hort chair	n fatty a	icids			d. Lo	ng chai	n fatty a	acids			
46)	F	ollowing	are the	enzyme	es that act u	p on prot	teins. A	rrange	them i	n a sequ	ence of	their (	A)/

action

a) Dipeptidase

b) Pepsin

c) Carboxypeptidase d) Tripeptidase

e) Trypsin

a. e-b-d-c-a

b. b-e-c-d-a

c. c-a-d-b-e

d.d-c-a-b-d

47) Mineral required for the formation of insulin is a.Sulphur b. Iodine c. Cobalt d. Copp d. Copper

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48	Proteolytic enzymes which act in acidic medium are
	a.Chymotrypsin, rennin b. Pepsin, Rennin
	c. Pepsinogen, Trypsinogen d. Pepsin, Trypsin
49)	Correct statement from the following is
	a.Pyloric sphincter regulates the flow of food in to the duodenum
	b.Lower oesophageal sphincter prevents backward flow of food into duodenum
	c.Pylorus is present between pyloric stomach and fundic stomach
	d.Cardia is present between cardiac stomach and fundic stomach.
50)	Stensen's duct and wharton's duct are associated with the following glands
	a.Parotid & sub maxillary  b. Parotid & sublingual
-4\	c. Sub maxillary & sublingual d. Sublingual & Infra orbital
51)	Dietetics' is related to the study of
	a. Nutritional disorders  b. Chemical nature of food
<b>70</b> \	c. Food stuff and nutrition d. Minerals & Vitamin
52)	Decreased blood pressure, low pulse rate, lowers than normal body temperature and
	mental retardation are the symptoms of
	a.Obesity b. Marasmus c. Kwashiorkor d. Carcinoma
53).	Many diseases can be diagnosed by observing the symptoms in the patient. Which groups of symptoms are indicative of pneumonia?
	a. Difficulty in respiration, fever, chills, cough, headache
	b. Constipation, abdominal pain, cramps, blood clots
	c. Nasal congestion and discharge, cough, sore throat, headache
	d. High fever, weakness, stomach pain, loss of appetite and constipation
54)	
54)	Antibodies present in colostrum which protect the new born from certain diseases is of
	a. Ig G type b. Ig A type c. Ig D type d. Ig E type
55)	. Identify the third line of defense from the following
	a) NK cells b) Tears c) T cells d) Phagocytes
56)	The chemical test that is used for diagnosis of typhoid is:
	a. ELISA-Test b. ESR – Test c. PCR – Test d. Widal-Test
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57	) A curren	t is flowing	due north along	a powerline. The direction of the magnetic
	field al	ove it, negle	ecting the earth's	s field is: (A)
	(1)North		(2)East	(3)South (4)West
58	b) Benign c) Sarcoma	tumors exh tumors are with as are the mali	nt among the followibit metastasis h a fibrous outer cap gnant tumors of seconant tumors of the ex	psule ondary lymphoid organs
59)	Asquare	conducting	loop of length L	on a side has a current'i'in it. The magnetic 🤇
×	inductio (1)Indepen		re of the loop is	(2)Directly proportional L
	(3)Inversel	y proportion	al to L	(4)Inversely proportional to L <sup>2</sup>
60).	when an a could be th	pparently hea at:	llthy person is diag	gnosed as unhealthy by a psychiatrist, the reason
	a. The patier	nt was not effic	cient at his work	
ĸ	b. The patier	nt was not econ	nomically prosperou	ıs
	c. The patier	nt shows behave	vioral and social ma	ladjustment
	d. He does n	ot take interes	t in sports	
				**
61)	When no ext	ernal force is	acting on a system	of particles, the centre of mass of the system
		as at rest only with constant	velocity or will be	2)Moves with constant velocity only at rest 4) Moves with variable velocity
62)	Field at the	e centre of c	ircular coilo frad	iusr,through which a currentI flows is
	(1)Directly	y proportiona	altor	(2)Inversely proportionaltol
	(3)Directly	proportional	toI	(4)Directly proportionaltoI <sup>2</sup>
63)	Lines of ma	gnetic field 2	round a current	carrying straight conductor will be
	1) Straight li	nesparallel to	conductor	
	2) Circular in	n a plane paral	lel to conductor	
	3) Circular in	n a plane perpe	endicular to conduct	
	4)Straight p	erpendicular t	o conductor	PRINCIPAL UTE OF NANTH! INSTITUTE OF SCIENCES
				A DUARMASCUIT MILEDURMET (III)
		elegia i		Gunthapally (V). Tolangana.

- 64) Magnetic induction at a point due to a small element of current carrying conductor is 1) Inversely proportional tothesquare of the distance of the point fromt the conductor 2) Inversely proportional to the distance of the poin tform the conductor 3) Directly proportional to the square of the length of conductor 4) Directly proportional to the square of the current
- 65) Imagine a man swimming along a current carrying conductor in a direction opposite to that of current and facing the conductor. A magnetic needle free to rotate in a horizontal plane is mounted on a stand under the wire. Then ( 2
  - 1) The north pole of the needle e will deflect towards his left hand
  - 2) The south pole of then needle willd deflect towards his left hand
  - 3)Then needle will not deflect
  - 4) Then needle will oscillate
- Statement A: current is scalar. 66)
  - StatementB:currentelementisvector.
  - 1)A and B are true 2)A and B are false

3)Only A is ture

4)Only B is true

67) Statement(A): Ampere's laws tates that thel ine integral of B. dlalonga closed path Round the current carrying conductor is equal to  $\mu_0 i$ Surface bounded by the closed path).

Statement(B): Ampere's law can be derived from Biotsavart'slaw.

- 1)A is true B is false 2)A is false B is true 3)A and B are true 4)A and B is false
- 68) A vertical straight conductor carries a current vertically upwards. A point P lies to the east of it as a small distance and another point Q lies to the west at the same

distance. The magnetic field at P is

- a. Greater than at O
- b. Same as at O
- c.Less than at O
- d.Greater or less than a tQ depending upon the magnetic field of the current

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69) Whi	ich of the follow	ving is a pai	ir of viral diseases?
a) Tyr c) Co	phoid and tubero mmon cold and	A Section of Contract	b) Ring worm and AIDS d) Dysentery and common cold
70) Who	ere will you loo	ok for the sp	porozoites of the malarial parasite? (2)
a) RI b) Sa c) Sa	BCs of Humans	suffering fro female anop female cule	rom malaria
71) The	current thro	igh a circu	ular coil appears to be flowing in clock-wise direction for
an	observer. The	magnetic	induction at the centre of the coil is:
e.	Perpendicular	to the plan	ne of the coil and towards the observer
			ne of the coil and away from the observer
	Parallel to pla		
h.	Inclinedat450	at the plane	e of coil
шадпе	tic field at th	ie centre d	dy current.It is bent into a circle of one turn and the of the coil B.It is then bent into a circular loop of
		neid at the	e centre of the coil will be: (2)
1)n	ıВ	2)n <sup>2</sup> B	$3)2nB$ $4)2n^{2}B$
	•		
73)The ma	agnețic field a	t the centr	re of the current carrying coilis
1)D	Directed norma	al to plane o	
	Zero		of the coil 2)Directed parallel to plane of the coil 4)Radial from centre of the coil

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	74) The elect	ric current in a circul	ar coil of two turns pro	oduced a magnetic induction of	
	0.2T at it	s centre. The coil is u	awound and rewound i	n to a coil of four turns. The	
	magnetic	induction at the centr	e of the coil now is in t	esla (if the same current flows in	
	the coil)	(4)	in the second new is, in t	esia (ii the same current flows ii	l.
			*		
	1)0.2	2)0.4	3)0.6	4)0.8	
	75) In an ato	m the electron has a t	ime period of 0.16 x 10	–15 s in a circular orbit of radiu	c
* *			4		3
	1)12.56	2)125.6		orbit will be (in tesla)	_
7	6) Acircular		3)1.256	4)25.12	
	o) minicular	are of wire subtends a	in angle $\pi/2$ at the centr	e. If it carries a current i and its	
	radius of c	urvature is R then the	e magnetic field at the c	centre of the arc is (4)	
	$1)\mu_0i$	2) $\mu_0$ i2R 3) $\mu_0$ i 4)	μ <sub>0</sub> i8R	of the art is	
7	7) The ratio of	de Broglie wave lengths	of two pout 1		
			of two particles, having	mass ratio 1:3 and kineticenergy	
	ratio 2:1 is		- 41		
	1)3:2				
	2)√3 : √2				
	3) $\sqrt{2}$ : $\sqrt{3}$				
	4)2 : 3				
<b>78</b> )	In lanthanides	, with increase in atomi	c number atomic radius	decreases, except for the	
	element X, wh	nat X? (2)		and cases, except for the	
	1)Gd				
	2)Eu		Ÿ.		
	3)Tm				
	4)Dy			PRINCIPAL OF THE	F
				AVANTH! INSTITUTES	(N
			*	AVANTH!  PHARMAC SUNDAL SCIENCES  PHARMAC (V), Abdullapurmet (I  Gunthapally (V), Abdullapurmet (I  R.R. Dist. Telangana.	
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- 79) Dipole moment order of which of the following pairs of molecules is not correct? 1)HF > HC1
  - 2) $H_2S > CO_2$
- 3) $NH_3 > NF_3$
- $4)CH_4 > CHCl_3$
- X and Y are the two covalent molecules in which the hybridization of the central atoms is 80) same, but shapes are different. X and Y are
  - a.XeF<sub>4</sub>, NH<sub>3</sub>
  - b.XeF<sub>2</sub>, PF<sub>5</sub>
  - c.BF<sub>3</sub>, H<sub>2</sub>O
  - d.CH<sub>4</sub>, BeCl<sub>2</sub>
- At same temperature and pressure, the rate of diffusion of gas 'X' is  $3\sqrt{3}$  times that of agaseous

hydrocarbon of molar mass 54g mol-1. The molar mass of X in g mol-1 is



- 1)16
- 2)2
- 3)32
- 4)28
- 82) From the given reaction

 $2KMnO_4 + 3H_2SO_4 + 5H_2O_2 \ \Box \ K_2SO_4 + 2MnSO_4 + 8H_2O + 5O_2$ 

Find the normality of H<sub>2</sub>O<sub>2</sub> solution, if 20mL of it is required to react completely with 16mLof 0.02 MKMnO<sub>4</sub> solution. (Molar mass of KMnO<sub>4</sub> = 158 g mol<sup>-1</sup>)

- $1)4 \times 10^{-2} \,\mathrm{N}$
- $2)2 \times 10^{-2} \text{ N}$
- $3)6 \times 10^{-2} \text{ N}$
- 4)8  $\times 10^{-2}$  N

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At the temperature T(K) for the reaction  $X_2O_{4(l)} \rightarrow 2XO_{2(g)} \Delta U = xkJ \ mol^{-1}, \Delta S = y \ Jk^{-1}mol^{-1}$ . 83)

Gibbs energy change for the reaction is

(Assume 
$$X_2O_4$$
,  $XO_2$  are ideal gases) (  $\nearrow$ 



 $1)1000 x + 2R (T - y)J mol^{-1}$ 

$$2)1000 x + T (2R - y)J mol^{-1}$$

$$3)x + T (2R - y)J mol^{-1}$$

$$4)x + 2R (T - y)J mol^{-1}$$

Arrange the aqueous solutions of the following salts in the increasing order of pH

CuSO<sub>4</sub> NaCN KCl (3).



Ι II III

85) Be and Al show similarities in properties due to diagonal relationship except in the property X given below. What is X?



- 1) Both form basic oxides and hydroxides
- 2) Ions of both have strong tendency to form complexes
- 3) In vapour phase chlorides of both have Cl bridged chloride structure
- 4)Chlorides of both are soluble in organic solvents
- 86) In the structure of B<sub>2</sub>H<sub>6</sub>, the number of BH<sub>2</sub> groups present in one plane, and the number of B-H bonds, B-B bonds, B-H-B bridge bonds are respectively

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### 87) Identify the incorrect statements from the following



I. Tin in +2 state acts as reducing agent while lead in +4 state acts as strong oxidizing agent

- II. Silicon exists as both  $[SiF_6]^{2-}$  and  $[SiCl_6]^{2-}$  forms
- III. The hybridization of carbon in fullerene is sp<sup>3</sup>
- IV. Among Ge, Sn and Pb lowest melting point is for Sn
- 1)I, IV 2) II,IV 3) II,III 4) III,IV

## 88). Methane of the polluted air reacts with ozone and forms the compound



1)

$$H-CH_0-H$$
.  $CH_2=CH-CHO$ 

- 2)
- 3)  $CH_2 = CH-CHO, C_2H_5CHO$
- 4) CO<sub>2</sub>, H<sub>2</sub>O

# 89) Assertion (A): Propene on addition with hydrogen bromide in the presence of peroxide gives 1-Bromopropane as the major product (3)

Reason (R): 1-Bromopropane is the major product because it is formed through the stablecarbocation

The correct answer is

- 1)(A) and (R) are correct, (R) is the correct explanation of (A)
- 2)(A) and (R) are correct but (R) is not the correct explanation of (A)
- 3)(A) is correct but (R) is not correct
- 4)(A) is not correct but (R) is correct

90). A metal crystallizes in two phases, one as fcc and other as bcc with unit cell edge lengths of 3.5 A and 3.0 Arespectively. The ratio of density of fcc and bcc phasesapproximately is

- 1)1.5:1.0
- 2)1.0:1.5
- 3)1.26:1
- 4)1:1.26

(3)

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91. Which of the following represents the hyperconjugation effect?



<sup>2</sup> 
$$CH_3 - CH_2 - CH_2 \rightarrow C1$$

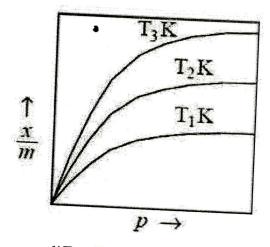
4. 
$$\mathbf{H} - \mathbf{C} - \mathbf{C} \oplus \longleftrightarrow \mathbf{H} + \mathbf{C} = \mathbf{C}$$
 $\mathbf{H} + \mathbf{H}$ 
 $\mathbf{H} + \mathbf{H}$ 
 $\mathbf{H} + \mathbf{H}$ 
 $\mathbf{H} + \mathbf{H}$ 

92). Freundlich adsorption isotherms for the physical adsorption of a gas at temperature

 $T_1, T_2$  and  $T_3$  are shown in the graph given below. The correct relationship between

 $T_1$ ,  $T_2$  and  $T_3$  is





$$1)T_1 < T_2 < T_3$$
  $2)T_3 < T_1 < T_2$   $3)T_3 < T_2 < T_1$   $4)T_2 < T_1 < T_3$ 

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keykkkkgu	
93). The ore which is concentrated by leach 1)PbS	ing (4)
2)Al <sub>2</sub> O <sub>3</sub> , 2H <sub>2</sub> O	
3)SnO <sub>2</sub>	
4)Fe <sub>2</sub> O <sub>3</sub>	*
1)Always lies inside the body 3) Always lies on the surface of the body	2) Always lies outside the body y . 4) May lie inside or outside the body
95 )A bomb at rest explodes. The centre of m	ass of the system (4)
<ol> <li>Describes a parabola</li> <li>Horizontally</li> </ol>	2) Vertically upwards 4) Is at rest
96). Antigen presenting cells are a) Dendritic cells	b) Activated macrophages
c) B-Cells d)Dendritic cells, activated	
97) Which of the following chemicals is NOT	involved in photochemical smog formation (4)
1)SO <sub>2</sub> 2) O <sub>3</sub>	3)NO <sub>2</sub> 4)NO
98). Gamma interferons are produced by	
a) B lymphocytes b) Macrophages	c) T lymphocytes d) Dendritic cell
99) The symbol of an element is Une. Its atomi	c number is (2)
1)110 2)109 3)101	4)108
100). An example for the less organised second	ary lymphoid tissue (4)
a) Thymus b) Spleen c) Lymph nodes	d) Mucosal - associated lymphoid tissue
	1.1

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## FREESHIP EXAMINATIONTEST 2020-21

Total Marks: 100

Name of the student: P. Hayshin?

Avanthi Freeship No: ATRS 2020 0 45

Duration: 180min
Date: 17 11 200

1. Maximum transpiration is by

1) Stomata 2) Cuticle

3) Lenticels

4) Cuticle & Lenticels

2. Scotoactive stomata

1) Opens during day time

2) Opens during night time

3) Opens during Day & Night

4) Never opens

3. Dumbbell shaped guard cells are seen in

1) All monocots

2) Liliaceae 3) Graminaceae

4) Dicotyledons

4. Source of protons during stomatal opening is

1) Water

2) Sugars

3) Light

4) Malate

5. During opening of stomata, into the guard cells

I: Entry of K+ is active

II: Entry of Cl is active

III: Export of H+ is active

IV: Entry of H<sub>2</sub>O is active

Correct statements are

1) I & II

2) II & III

3) I & III

4) I & IV

6. Transpiration can be demonstrated by

1) Ganong's potometer

2) Bell jar experiment

3) Hydrilla experiment

4) Barometer

7. The factors that show inversely proportional relationship with transpiration

(4)

1) Temperature & Humidity

2) Availability of water & Very high velocity of wind

3) Light & Temperature

4) Humidity & Very high velocity of wind

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8.	Assertion (A):	Spinous plants trans	pire less		(2)
	Reason(R): Sp	oines are adoptions o	f xerophytic pla	ants	<i>y</i> /
		are true and R is the			
		are true but R is not			
	3) A is true, R is		A is false, R is to		
			*		
9.	Natural anti tra	inspirant in plants is			(4)
	1) Auxin	2) Malate	3) Pro	oton	4) ABA
10.	Transpiration p	olays an indirect role	in		(3)
		nsport of minerals	2) Absorption	on of water	
	3) Translocation	of solutes	4) Distributi		
11.	Transpiration is	s a 'necessary evil '-	stated by		(2)
	1) Slatyer	2) Arnon	3) Knop	×	4) Curtis
12.	Phenyl mercuria	c acetate (PMA) is			4) Curtis
		used as an antitranspir	ant		(3)
		sed to increase transpi			
		sed as an antitranspira			
		none used as an anti tr		4.8	
		1	p i wiii.		
13.	_	e ATP for their activ	ity is		(2)
	1) Kinases	2) Synthetas	ses		
	3) Transferases	. 4) Hydrolas	es		
14.	Metallic co-facto	r in carboxy peptidas	se is		(3/
	1)Fe	2)Mn	3) Zn	4)Mg	
15.	Third number in	the enzyme nomencl	atura indicates		
	1)Sub-Subclass	2)SubClasses 3)M	lajor Classes	4)Serial nui	mber
				1/	8
				\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	RINCIPAL OF
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16.	Protein part in a holo enz	yme is	(1)				
	1) Apoenzyme	2)Simple enzyme					
	3)Conjugated enzyme	4)Inducive enzyme					
		•					
17.	The reaction CO <sub>2</sub> + H <sub>2</sub> O ←	H <sub>2</sub> CO <sub>3</sub> requires					
	1) No enzyme	2)An entyme					
	3)Very high temperatures	4) Very low temperatures					
18.	. Immunity that protects ag	ainst intracellular bacteria, vir	us & cancer cells is				
	<ul><li>a) Innate immunity</li><li>c) Non-specific immunity</li></ul>	b) Humoral immunity d) Cell mediated immunity					
19.	Stomatal Index is		(2)				
	1) Ratio between stomata a	nd leaf surface area					
	2) Ratio between stomata p	er unit area and sum of epiderma	al cells and stomata of that				
	unit are						
	3) Ratio between epidermal	cells and stomata of that unit ar	ea				
	4) Ratio between sum of st	omata and epidermal cells of a un	nit area and stomata of that				
	area.						
20.	Ascent of sap is movemen	t of water from	(2)				
	1) Soil into Xylem	2) Xylem into leaves					
	3) Xylem into atmosphere	4) Leaves into atmospher	re				
21.	Guttation is		(1)				
	1. Evidence of root pressure	e.					
	2. Movement of water through the apoplast.						
	3. Movement of soluble organic materials through plants						
	4. Negative pressure created	d by transpiration.					
22.	When water potential of a	accessory cells increase					
	1) Stomata open	2) Stomata	closes				
	3) Stomata either opens or o	closes 4) Stomata	neither opens nor closes				
23.	True statement regarding	opening of stomata	(1)				
	1) Wind is essential	2) Water potential	gradient is essential				
	3) Light is essential.	4) Protons are esse	ential.				
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24. True statement regarding environmental factors is I: High wind velocity increases transpiration continuously II: As available water is pure rate of transpiration is maximum. III: Atmospheric pressure increases transpiration. IV: Light increases transpiration to certain extent 1)I & II 3) Only IV 2) II & III 4) IV & II 25. Apparently the source of energy for keeping stomata open is 1. Ion transfer 2. Transpiration 3. Photosynthesis 4. Hydrogen bond formation 26. Transpiration rate is inversely proportional to 1)Temperature 2) Light 3) Gentle breeze 4) High wind speeds 27. Stomatal opening and closing depends on 1)pH changes 2) Guard cell size 3) Size of stomatal chamber 4) Solute concentration of guard cells 28 .During stomatal closing 2) Protons move actively into guard cells 2) Protons moves passively into guard cells. 3) Chloride moves passively into guard cells. 4) Malate moves to adjacent cells. 29. The reason that a column of water in a tall tree does not sink because of its weightis() 1. The tensile strength of a column of water. 2. Bubbles form that are too large to be transported 3. The presence of strong ion concentrations near the top of the tree 4. The formation of hydrogen bonds with the plants vessels 30 .Stomata open during day and closes during night are called as 1)Photoactive 2) Scotoactive 3)Amphiactive 4) Hypoactive

	31)Ra	te of th	ne trans	spiratio	n from	the upp	per sur	face an	d lowe	r surfa	ce of th	e /		
	leaf can be known by					(2/)								
	1. B	ell jar e	xperime	ent			2.Cobalt chloride experiment							
	3. Ganong's potometer							4.Ganoi	ng's sur	nscreen				
	32) A	ssertio	n (A): T	he dige	stive ac	tion of s	salivar	amylas	se stops	when t	he swal	lowed bo	olus	
	Ent	ters the	stomacl	n °										
	Rea	son (R)	: Saliva	ry amyl	ase is in	activate	ed at the	e low pl	H of gas	stric jui	ce .	(1)		
	a. Be	oth A ar	nd R are	true an	d the R	is corre	ct expla	anation	of the A	1		1/		
	b. B	oth A ai	nd R are	true bu	it the R	is not co	orrect e	xplanati	on of th	ne A				
	c. A	is true,	but the	R is fal	se									
	d. B	oth A ai	nd R are	false									is a	
	33) ]	Match t	the follo	owing										
	C	olumn -	т			C. I.	***				(	· )		
	A)	- Haus		,			mn-II				(	X		
	B)	Uvu				i) Pal		4ia. d.v.a						
	C)		ulus rot	nndua			-	tine duc	i					
	D)		bson's c			iv) Co	harynx							
	D)	Jaco	03011 3 (	ngan										
		Α	В	С	В	v) Ile	um	A	B	C	D			
	a.	IV	I	v	II		b.			C	D			
		I	IV	II	V		d.	IV	I	V	III	ï		
	c.	1	1 V	11	V		a.	I	IV	III	V			
3	84) Th	e nanil	laa arra	ngad i	a samia	ircle at	tha ba	a of to	10110 0	10		(4)		
_		Fungifo		•	liform	ii cie at	c. Fo		igue ar		rcumva	lloto		
	4.1	ungno	1111	0.11	11101111		<b>C.</b> 1 O	mate		u. Ci	icumva	illate		
3	85) Ar	range i	the falla	wing n	arte in	the ston	nach x	vall in t	he corr	act sag	uongo f	rom /		
_			the inn		arts III	the ston	nach W	411 III t	iic corr	cci scq	uence i			
	A. C	ircular	muscle	fibers	B. Se	rosa	C. M	luscular	is muco	sa				
	D. O	blique	muscle	fibers	E. Co	olumnar	epithel	lium	F. L	ongitud	inal mu	scle fibe	rs	
	G. S	ubmucc	osa											
	a. B-	F-A-D-	G-C-E	b. B-	A-F-D-	G-C-E	c. B-	F-A-G-	D-C-E	d. B-	F-A-D-	C-G-E		
										1			1	
												PRINC	TEAL	TE OF
			f								PHAR	MACEUTH	CAL SCIEN	ICES
										Gi	inthapa	Ily (V), A R. Dist.	odullapur Telangana	met (M), 59

36).	36). The cells that are not found in the gastric gland of rabbit are							
	a.Oxyntic cells	b. Zymogen cells	c. Parietal cells	d. Kupffer cells				
37)	Choose the correc							
	a.Deficiency of prot	ein intake causes kwashior	kor					
	b.Deficiency of fat intake causes marasmus disease							
	c.Deficiency of mag	nesium causes seborrheic	sterility					
	d.Deficiency of niac	ein causes seborrheic derm	atitis					
38	choose the correc	et answer						
		naracter	i	Cy				
	, 9	ated below the eye orbit						
	6" 10 A	en through Wharton's duc	. * • .					
	,	pen through Stensen's duc						
	,	ated below the tongue	•					
	,		II and I d. I	and IV				
	a. I and II	b. If and III C. I	II and I	W. Z. Y				
39)	Amino acids are the	only end products by th	e action of which of th	e following enzymes acts				
39)			,	(6)				
(	on the protein co							
	a.Aminopeptidase	b. Carboxypeptidase c.	Tripeptidase d. D	Dipeptidase				
40)	The determination on	an of the body is		( 7)				
	The detoxifying or b.	Pancreas c. Sple	en d. Bone marrov	v				
				9				
41)	In normal condition	ns, the lower oesophageal	sphincter prevents th	e regurgitataion				
	offood from the			(2)				
	a.Cardiac stomach to	pyloric stomach	b. Cardiac stomacl	h to fundic stomach				
	c. Cardiac stomach to		d. Pyloric stomach	to cardiac stomach				
42)		cose in liver from non-ca	rbohydrates is called	141				
74)	Tormation or gru		•					
	a.Glycogenesis	b. Gluconeogene	sis c. Lipogenesis	d. Glycogenolysis				

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#### 43) Match the followings

Cells

Secretion

- A) Zymogen Cells
- I) Mucus
- B) Neck Cells
- II) Pepsinogen

D

II

- C) Parietal Cells
- III) Gastrin
- D) G-Cells
- IV) Castle's intrinsic factor

Α

III

Ш

A

II

В

D

a.

B I

II

b. II

IV

I III

C

c.

IV

d.

I

IV III

#### 44) Read the following

- I. Health and vigour of epithelial tissues-vitamin A
- II. Health and integrity of muscles-vitamin E
- III. Integrity of endothelium -vitamin C
- IV. Functioning of gonads-vitamin E

Which of the above are true?

- a. All are true
- b. All except IV
- c. All except II
- d. All are false

#### Which of the following substances are absorbed into the cells and into blood by diffusion? 45)

a.Amino acids

b. Fructose

c. Short chain fatty acids

d. Long chain fatty acids

#### 46) Following are the enzymes that act up on proteins. Arrange them in a sequence of their action

- a) Dipeptidase
- b) Pepsin
- c) Carboxypeptidase d) Tripeptidase

- a. e-b-d-c-a
- b. b-e-c-d-a
- c. c-a-d-b-e
- d.d-c-a-b-d

## Mineral required for the formation of insulin is

a.Sulphur

b. Iodine

c. Cobalt

d. Copper

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48	Proteolytic enzyme	es which act in	acidic medium are				
	a.Chymotrypsin, re	ennin	b. Pepsin, Rennin	3)			
,	c. Pepsinogen,Tryp	osinogen	d. Pepsin, Trypsin				
49)	Correct statement f	from the follow	ing is				
	a.Pyloric sphincter re	egulates the flow	w of food in to the duodenum	(2)			
	b.Lower oesophageal sphincter prevents backward flow of food into duodenum						
	·		stomach and fundic stomach				
	d.Cardia is present b	between cardiac	stomach and fundic stomach.				
<b>5</b> 0)	C4			* ,			
50)	a.Parotid & sub max	V <sub>4</sub> :	t are associated with the follows	owing glands			
		, •	b. Parotid & sublingual	1			
51)	c. Sub maxillary &	C	d. Sublingual & Infra orbita	.15			
31)	<b>Dietetics' is relate</b> a.Nutritional disorde	•	b. Chemical nature of food				
	c. Food stuff and m		d. Minerals & Vitamin				
52)			se rate, lowers than normal	hody tompovotuvo and			
S <b>2</b> )		*		body temperature and			
	mental retardation						
	a.Obesity	b. Marasmu	s c. Kwashiorkor	d. Carcinoma			
53).				in the patient. Which groups of			
53).	symptoms are indic	cative of pneun	nonia?	in the patient. Which groups of			
53).	symptoms are indic	cative of pneun		in the patient. Which groups of			
53).	a. Difficulty in re	espiration, fever	nonia?	in the patient. Which groups of			
53).	<ul><li>a. Difficulty in re</li><li>b. Constipation, a</li></ul>	cative of pneum espiration, fever abdominal pain,	nonia?				
53).	<ul> <li>a. Difficulty in re</li> <li>b. Constipation, a</li> <li>c. Nasal congestion</li> </ul>	espiration, fever abdominal pain, on and discharg	nonia? , chills, cough, headache cramps, blood clots	e (1)			
<ul><li>53).</li><li>54)</li></ul>	<ul> <li>a. Difficulty in re</li> <li>b. Constipation, a</li> <li>c. Nasal congestion</li> <li>d. High fever, we</li> </ul>	espiration, fever abdominal pain, on and discharge eakness, stomacl	nonia?  , chills, cough, headache  cramps, blood clots  ge, cough, sore throat, headach	e anstipation			
	a. Difficulty in reb. Constipation, ac. Nasal congestion. d. High fever, we Antibodies present	espiration, fever abdominal pain, on and discharg akness, stomacl in colostrum w	nonia?  , chills, cough, headache  cramps, blood clots  ge, cough, sore throat, headach  h pain, loss of appetite and con  which protect the new born for	e anstipation			
54)	a. Difficulty in reb. Constipation, ac. Nasal congestion. d. High fever, we Antibodies present a. Ig G type	espiration, fever abdominal pain, on and discharg eakness, stomacl in colostrum we b. Ig A type	nonia?  , chills, cough, headache cramps, blood clots ge, cough, sore throat, headach h pain, loss of appetite and con which protect the new born for c. Ig D type d. Ig E type	e instipation rom certain diseases is of			
54)	a. Difficulty in reb. Constipation, ac. Nasal congestion. d. High fever, we Antibodies present a. Ig G type Identify the third li	espiration, fever abdominal pain, on and discharg eakness, stomach in colostrum was b. Ig A type	nonia?  cramps, blood clots  ce, cough, sore throat, headach  pain, loss of appetite and cor  which protect the new born for  c. Ig D type d. Ig E type  from the following	e instipation rom certain diseases is of			
54)	a. Difficulty in reb. Constipation, ac. Nasal congestion. d. High fever, we Antibodies present a. Ig G type	espiration, fever abdominal pain, on and discharg eakness, stomacl in colostrum we b. Ig A type	nonia?  , chills, cough, headache cramps, blood clots ge, cough, sore throat, headach h pain, loss of appetite and con which protect the new born for c. Ig D type d. Ig E type	e instipation rom certain diseases is of			
54)	a. Difficulty in reb. Constipation, ac. Nasal congestion. d. High fever, we Antibodies present a. Ig G type Identify the third lima NK cells	espiration, fever abdominal pain, on and discharge akness, stomaclin colostrum with b. Ig A type the of defense for the by Tears	nonia?  cramps, blood clots  ce, cough, sore throat, headach  pain, loss of appetite and cor  which protect the new born for  c. Ig D type d. Ig E type  from the following	e instipation rom certain diseases is of			
<b>54) 55)</b> .	a. Difficulty in reb. Constipation, ac. Nasal congestion. d. High fever, we Antibodies present a. Ig G type Identify the third lima NK cells	espiration, fever abdominal pain, on and discharge akness, stomacle in colostrum who be Ig A type ine of defense for the bold and the bold and the bold are stored in the bold and the bold are stored in the bold and the bold are stored in the bold are s	nonia?  , chills, cough, headache cramps, blood clots ge, cough, sore throat, headach h pain, loss of appetite and con which protect the new born for c. Ig D type d. Ig E type from the following c) T cells	e instipation rom certain diseases is of (b) d) Phagocytes			
<b>54) 55)</b> .	a. Difficulty in reb. Constipation, ac. Nasal congestion. d. High fever, we Antibodies present a. Ig G type Identify the third lima) NK cells The chemical test the	espiration, fever abdominal pain, on and discharge akness, stomacle in colostrum who be Ig A type ine of defense for the bold and the bold and the bold are stored in the bold and the bold are stored in the bold and the bold are stored in the bold are s	nonia?  , chills, cough, headache cramps, blood clots ge, cough, sore throat, headach h pain, loss of appetite and con which protect the new born for c. Ig D type d. Ig E type from the following c) T cells diagnosis of typhoid is:	e instipation rom certain diseases is of (b) d) Phagocytes			
<b>54) 55)</b> .	a. Difficulty in reb. Constipation, ac. Nasal congestion. d. High fever, we Antibodies present a. Ig G type Identify the third lima) NK cells The chemical test the	espiration, fever abdominal pain, on and discharge akness, stomacle in colostrum who be Ig A type ine of defense for the bold and the bold and the bold are stored in the bold and the bold are stored in the bold and the bold are stored in the bold are s	nonia?  , chills, cough, headache cramps, blood clots ge, cough, sore throat, headach h pain, loss of appetite and con which protect the new born for c. Ig D type d. Ig E type from the following c) T cells diagnosis of typhoid is:	e instipation rom certain diseases is of (b) d) Phagocytes			
<b>54) 55)</b> .	a. Difficulty in reb. Constipation, ac. Nasal congestion. d. High fever, we Antibodies present a. Ig G type Identify the third lima) NK cells The chemical test the	espiration, fever abdominal pain, on and discharge akness, stomacle in colostrum who be Ig A type ine of defense for the bold and the bold and the bold are stored in the bold and the bold are stored in the bold and the bold are stored in the bold are s	nonia?  , chills, cough, headache cramps, blood clots ge, cough, sore throat, headach h pain, loss of appetite and con which protect the new born for c. Ig D type d. Ig E type from the following c) T cells diagnosis of typhoid is: c. PCR – Test d. Widal-Test	e instipation  rom certain diseases is of  (b)  d) Phagocytes  3  PRINCIPAL INSTITUTE OF INSTITUTE OF			
<b>54) 55)</b> .	a. Difficulty in reb. Constipation, ac. Nasal congestion. d. High fever, we Antibodies present a. Ig G type Identify the third lima) NK cells The chemical test the	espiration, fever abdominal pain, on and discharge akness, stomacle in colostrum who be Ig A type ine of defense for the bold and the bold and the bold are stored in the bold and the bold are stored in the bold and the bold are stored in the bold are s	nonia?  , chills, cough, headache cramps, blood clots ge, cough, sore throat, headach h pain, loss of appetite and con which protect the new born for c. Ig D type d. Ig E type from the following c) T cells diagnosis of typhoid is: c. PCR – Test d. Widal-Test	e instipation rom certain diseases is of (b)  d) Phagocytes  PRINCIPAL PAL PRINCIPAL OF			

. 7						amatia
57)		ing due north along a			ion of the m	agnetic
	field above it, 1	neglecting the earth's	field		(4) 1174	(1)
	(1)North	(2)East		(3)South	(4)West	
	<ul><li>a) Malignant tumor</li><li>b) Benign tumors at</li><li>c) Sarcomas are the</li><li>d) Carcinomas are r</li></ul>	tement among the follows sexhibit metastasis re with a fibrous outer cap malignant tumors of seconalignant tumors of the ep	sule ndar oithel	ial cells		
59)	A square conduc	ting loop of length L o	nas	side has a current	i'in it. The m	agnetic
	induction at the (1)Independent of	centre of the loop is		(2)Directly propo		(2)
	(3)Inversely propo	ortional to L		(4)Inversely prop	ortional to L <sup>2</sup>	
60).	when an apparent could be that:	ly healthy person is diag	nose	d as unhealthy by a	psychiatrist, t	the reason
	a. The patient was n	ot efficient at his work				
	b. The patient was n	ot economically prosperor	ıs			
	c. The patient show	s behavioral and social ma	ladjı	ıstment		×
	d. He does not take	interest in sports		4)		
61)	When no external f	orce is acting on a system	n of	particles, the centre	of mass of the	esystem
	1) Remains at res 3) Moves with c	st only onstant velocity or will be	at re	,	th constant velos with variable	ocity only velocity (3)
62	) Field at the cent	re of circular coilo fra	dius	r,through which a	currentI flor	ws is
	(1)Directly prop			(2)Inversely proj		
	(3)Directly propo	ortionaltoI		(4)Directly prop	ortionaltoI <sup>2</sup>	(3)
63	) Lines of magnetic	e field around a curren	t cai	rrying straight con	ductor will b	e
	1) Straight linespar	rallel to conductor				
	2) Circular in a pla	ne parallel to conductor			(	3)
	3) Circular in a pla	ne perpendicular to condu	ctor	M		
	4)Straight perpend	dicular to conductor				0
			<b>ė</b>	AVANT PHAR Gunthapa R		TUTE OF CIENCES apurmet (M), gana.

- 64) Magnetic induction at a point due to a small element of current carrying conductor is
  - 1) Inversely proportional tothesquare of the distance of the point fromt the conductor
  - 2) Inversely proportional to the distance of the poin tform the conductor
  - 3) Directly proportional to the square of the length of conductor
  - 4) Directly proportional to the square of the current
- 65) Imagine a man swimming along a current carrying conductor in a direction opposite to that of current and facing the conductor. A magnetic needle free to rotate in a horizontal plane is mounted on a stand under the wire. Then
  - 1) The north pole of the needle e will deflect towards his left hand
  - 2) The south pole of then needle willd deflect towards his left hand
  - 3) Then needle will not deflect
  - 4) Then needle will oscillate
- 66) Statement A: current is scalar.

StatementB:currentelementisvector.

1)A and B are true 2)A and B are false

3)Only A is ture

4)Only B is true

67) Statement(A): Ampere's laws tates that thel ine integral of B. dlalonga closed path Round the current carrying conductor is equal to μ<sub>0</sub>i

Surface bounded by the closed path).

Statement(B): Ampere's law can be derived from Biotsavart'slaw.

1)A is true B is false 2)A is false B is true 3)A and B are true 4)A and B is false

68) A vertical straight conductor carries a current vertically upwards. A point P lies to the east of it as a small distance and another point Q lies to the west at the same

distance. The magnetic field at P is

- a. Greater than at Q
- b. Same as at Q
- c.Less than at Q
- d.Greater or less than a tQ depending upon the magnetic field of the curre

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64

1)

69) Which of the following is a	pair of viral diseases	?	(35
a) Typhoid and tuberculosis c) Common cold and AIDS	b) Ring worm and A d) Dysentery and co	AIDS ommon cold	
70) Where will you look for the	e sporozoites of the n	ıalarial parasite?	
a) RBCs of Humans suffering b) Saliva of infected female ar c) Saliva of Infected female of d) Spleen of infected humans.	from malaria nopheles mosquito ulex mosquito	,	(2)
	•		w.
71) The current through a cir	cular coil appears	to be flowing in clock	k-wise direction for
an observer. The magnet	tic induction at the	centre of the coil is:	(2)
e. Perpendicular to the p	£		
f. Perpendicular to the p			or.
g. Parallel to plane of the		may from the observe	CI
h. Inclinedat45 <sup>0</sup> at the pla			
72) A long wire carries a sto	e of the coil B.It	is then bent into a o	f one turn and the
turns.The magnetic field at	the centre of the co	oil will be:	(9)
$1)nB   2)n^2B$	!	3)2nB	4)2n <sup>2</sup> B
•			
73)The magnetic field at the cer	utre of the current	carrying poilis	
1)Directed normal to plan	0.1		nlong of the mil
3)Zero		2)Directed parallel to 4)Radial from centre of	

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7.000	74) The electr	ric current in a	circular coil of two t			
	0.2T at its	s centre. The co	il is unwound and	urns produced	a magnetic in	duction of
	magnetic i	induction at the	oil is unwound and re	ewound in to a c	coil of four tu	rns. The
	the coil)	muuction at the	e centre of the coil no	w is, in tesla (if	the same cur	rent flows in
	the conj		*			(4)
	1)0.2	2)0.4	3)0.	.6	4)0.8	
	75) In an ato	m the electron	has a time period of	0.16 x 10 <sup>-15</sup> s i	n a circular oı	bit of radiu
* *			induction at the cent			
	1)12.56	2)125	.6 3)1.2		4)25.12	-9
			tends an angle $\pi/2$ at the magnetic field $\mu_0 i = 4 \mu_0 i 8 R$			ent i and its
77	7) The ratio of	de Broglie wave	lengths of two particle	s, having mass r	atio 1 : 3 and k	ineticenergy
	ratio 2:1 is			4,3		(2)
	1)3:2					
	2)√3 : √2					
	3) $\sqrt{2}$ : $\sqrt{3}$					
	4)2 : 3					
<b>78</b> )	In lanthanides	, with increase in	n atomic number atom	ic radius decreas	ses, except for t	he
	element X, wh	at X?			~	
	1)Gd				( ).5	2
	2)Eu		,	11		
	3)Tm				777	0
	4)Dy		ė	AVAN PHA	PRINCIPAL THT: INSTI- ARMACEUTICALS Apally (V), Abduil R.R. Dist. Telar	TUTE OF CCIENCES Lapurmet (M),
	N 4_		₹	Guitino	R.R. Dist. Islan	

79) Dipole moment order of which of the following pairs of molecules is not correct?

1)HF > HCl

 $2)H_2S > CO_2$ 

3) $NH_3 > NF_3$ 

 $4)CH_4 > CHCl_3$ 

(2)

80) X and Y are the two covalent molecules in which the hybridization of the central atoms is same, but shapes are different. X and Y are \*

a.XeF<sub>4</sub>, NH<sub>3</sub>

b.XeF<sub>2</sub>, PF<sub>5</sub>

c.BF<sub>3</sub>, H<sub>2</sub>O

d.CH<sub>4</sub>, BeCl<sub>2</sub>

81) At same temperature and pressure, the rate of diffusion of gas 'X' is  $3\sqrt{3}$  times that of agaseous

hydrocarbon of molar mass 54g mol<sup>-1</sup>. The molar mass of X in g mol<sup>-1</sup> is

1)16

2)2

3)32

4)28

82) From the given reaction

 $2KMnO_4 + 3H_2SO_4 + 5H_2O_2 \ \Box \ K_2SO_4 + 2MnSO_4 + 8H_2O + 5O_2$ 

Find the normality of  $H_2O_2$  solution, if 20mL of it is required to react completely with 16mLof 0.02 MKMnO<sub>4</sub> solution. (Molar mass of KMnO<sub>4</sub> = 158 g mol<sup>-1</sup>)



$$2)2 \times 10^{-2} \text{ N}$$

$$3)6 \times 10^{-2} \text{ N}$$

4)8 
$$\times 10^{-2}$$
 N

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83) At the temperature T(K) for the reaction  $X_2O_{4(l)} \rightarrow 2XO_{2(g)} \Delta U = xkJ \text{ mol}^{-1}, \Delta S = y Jk^{-1}\text{mol}^{-1}$ .

Gibbs energy change for the reaction is

(Assume X<sub>2</sub>O<sub>4</sub>, XO<sub>2</sub> are ideal gases)

$$1)1000 x + 2R (T - y)J mol^{-1}$$

$$2)1000 x + T (2R - y)J mol^{-1}$$

$$3)x + T (2R - y)J mol^{-1}$$

$$4)x + 2R (T - y)J mol^{-1}$$



84) Arrange the aqueous solutions of the following salts in the increasing order of pH

#### CuSO<sub>4</sub> NaCN KCl

II

I

III

- 1)I < II < III
- 2)I < III < II
- 3)III < II < I
- 4)II < III < I
- 85) Be and Al show similarities in properties due to diagonal relationship except in the property X given below. What is X?



- 1)Both form basic oxides and hydroxides
- 2) Ions of both have strong tendency to form complexes
- 3) In vapour phase chlorides of both have Cl bridged chloride structure
- 4)Chlorides of both are soluble in organic solvents
- 86) In the structure of B<sub>2</sub>H<sub>6</sub>, the number of BH<sub>2</sub> groups present in one plane, and the number of B-H bonds, B-B bonds, B-H-B bridge bonds are respectively



2)3, 2, 2, 2

3)2, 4, 0, 2

4)2, 4, 2, 0

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#### 87) Identify the incorrect statements from the following

- I. Tin in +2 state acts as reducing agent while lead in +4 state acts as strong oxidizing agent
- II. Silicon exists as both [SiF<sub>6</sub>]<sup>2-</sup> and [SiCl<sub>6</sub>]<sup>2-</sup> forms
- III. The hybridization of carbon in fullerene is sp<sup>3</sup>
- IV. Among Ge, Sn and Pb lowest melting point is for Sn
- 1)I, IV 2) II,IV 3) II,III 4) III,IV

### 88). Methane of the polluted air reacts with ozone and forms the compound

1)

$$H-C-H$$
,  $CH_2=CH-CHO$ 

- 2) ö
- 3)  $CH_2 = CH-CHO, C_2H_5CHO$
- 4) CO<sub>2</sub>, H<sub>2</sub>O

# 89) Assertion (A): Propene on addition with hydrogen bromide in the presence of peroxide gives 1-Bromopropane as the major product

Reason (R): 1-Bromopropane is the major product because it is formed through the stablecarbocation

The correct answer is

- 1)(A) and (R) are correct, (R) is the correct explanation of (A)
- 2)(A) and (R) are correct but (R) is not the correct explanation of (A)
- 3)(A) is correct but (R) is not correct
- 4)(A) is not correct but (R) is correct
- 90). A metal crystallizes in two phases, one as fcc and other as bcc with unit cell edge lengths of 3.5 A and 3.0 Arespectively. The ratio of density of fcc and bcc phasesapproximately is

3

- 1)1.5:1.0
- 2)1.0:1.5
- 3)1.26:1
- 4)1:1.26

(8)

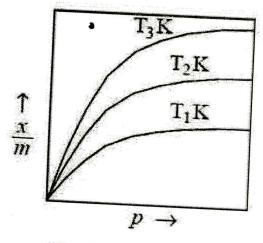
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# 91. Which of the following represents the hyperconjugation effect?

$$1. \ge C = C \le +-CN \longrightarrow \ge C - C \le C$$



92). Freundlich adsorption isotherms for the physical adsorption of a gas at temperature  $T_1, T_2$  and  $T_3$  are shown in the graph given below. The correct relationship between T<sub>1</sub>, T<sub>2</sub> and T<sub>3</sub> is





1) $T_1 < T_2 < T_3$  2) $T_3 < T_1 < T_2$  3) $T_3 < T_2 < T_1$  4) $T_2 < T_1 < T_3$ 

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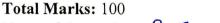
93). The ore which is c	oncentrated	by leach	ing			(0)
1)PbS						(2)
2)Al <sub>2</sub> O <sub>3</sub> , 2H <sub>2</sub> O						
3)SnO <sub>2</sub>						
4)Fe <sub>2</sub> O <sub>3</sub>			*			
94) Centre of mass of a	body					
1)Always lies inside 3) Always lies on	the body the surface o	f the body	y . 4) May	2) Always lie inside o	lies outside the	e body ody
95 )A bomb at rest explo	des. The cer	ntre of m	ass of the s	ystem		
<ol> <li>Describes a parabola</li> <li>Horizontally</li> </ol>			2) Vertically upwards 4) Is at rest			
96). Antigen presenting c a) Dendritic cells	ells are			b) Activated	d macrophages	0.1
c) B-Cells d)Den	dritic cells, a	activated 1				4)
97) Which of the followi	ng chemical	s is NOT	involved i	n photoche	mical smog for	rmation
	1)SO <sub>2</sub>	2) O <sub>3</sub>	3)NO <sub>2</sub>	4)NO		CB
98). Gamma interferons a	re produced	l by				15.
a) B lymphocytes	b) Macrop	hages	c) T lym	phocytes	d) Dendritic	cell
99) The symbol of an elem	nent is Une.	Its atomi	c number i	s		
1)110 2)109	3)101		4)108		(2	
100). An example for the l	ess organise	d second	ary lymph	oid tissue		6
a) Thymus b) Spleen					associated lymp	phoid tissue
					\\	

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Qunthapally (V), Abdullapurmet (M).
R.R. Disc. Tolangana.

#### Avanthi InstituteofPharmaceuticSciences,

Gunthapally(V), Abdullapurmet(M), Ranga Reddy Dist.501512

# FREESHIP EXAMINATIONTEST 2020-21



Name of the student: B. Santhos

Avanthi Freeship No: AT PS2020006



Maximum transpiration is by

1) Stomata 2) Cuticle

3) Lenticels

4) Cuticle & Lenticels

Duration: 180min

Date: 4 12 2020

2. Scotoactive stomata

1.

1) Opens during day time

2) Opens during night time

3) Opens during Day & Night

4) Never opens

3. Dumbbell shaped guard cells are seen in

1) All monocots

2) Liliaceae 3) Graminaceae

4) Dicotyledons

4. Source of protons during stomatal opening is

1) Water

2) Sugars

3) Light

4) Malate

5. During opening of stomata, into the guard cells

I: Entry of K+ is active

II: Entry of Cl is active

III: Export of H+ is active

IV: Entry of H<sub>2</sub>O is active

Correct statements are

1) I & II

2) II & III

3) I & III

4) I & IV

6. Transpiration can be demonstrated by

1) Ganong's potometer

2) Bell jar experiment

3) *Hydrilla* experiment

4) Barometer

7. The factors that show inversely proportional relationship with transpiration

1) Temperature & Humidity

2) Availability of water & Very high velocity of wind

3) Light & Temperature

4) Humidity & Very high velocity of wind

(4)/

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8.	Assertion (A): Spinous plants transpire less				(4)
	Reason(R): S	ıts			
	1) Both A and I	on of A.	,		
	2) Both A and F	R are true but R is no	t the correct explan	nation of A.	
	3) A is true, R i	s false 4	A is false, R is tru	ıe	
9.	Natural anti tra	anspirant in plants	is		( <b>2</b> ) <b>1</b>
	1) Auxin	2) Malate	e 3) Prot	ton	4) ABA
10.	Transpiration	plays an indirect ro	le in		(3)
	1) Uptake & Tra	ansport of minerals	2) Absorption	of water	
	3) Translocation	of solutes	4) Distribution	n of water	
11.	Transpiration i	s a 'necessary evil '	- stated by		(4)
	1) Slatyer	2) Arnon	3) Knop	,	4) Curtis
12.	Phenyl mercuri	ic acetate (PMA) is			(3)
	1) An antibiotic	used as an antitransp	irant		
	2) A fungicide u	sed to increase trans	piration		
	3) A fungicide u	sed as an antitranspir	rant	s è	
	4) A growth horn	mone used as an anti	transpirant.		
13.	Enzymes that us	se ATP for their acti	ivity is		(2)
	1) Kinases	2) Synthet	tases		
	3) Transferases	. 4) Hydrola	ases		
14.	Metallic co-facto	or in carboxy peptid	ase is	(	3)/
	1)Fe	2)Mn	3) Zn	4)Mg	
15.	Third number in	ı the enzyme nomen	clature indicates		(41)
	1)Sub-Subclass	2)SubClasses 3)	Major Classes	4)Serial num	ber
				0.00	

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1) No enzyme 3) Very high temperatures 4) Very low temperatures  18. Immunity that protects against intracellular bacteria, virus & cancer cells is  a) Innate immunity b) Humoral immunity c) Non-specific immunity d) Cell mediated immunity  19. Stomatal Index is 1) Ratio between stomata and leaf surface area 2) Ratio between stomata per unit area and sum of epidermal cells and stomata of that unit are 3) Ratio between epidermal cells and stomata of that unit area 4) Ratio between sum of stomata and epidermal cells of a unit area and stomata of that area.  20. Ascent of sap is movement of water from 1) Soil into Xylem 2) Xylem into leaves 3) Xylem into atmosphere 4) Leaves into atmosphere 21. Guttation is 1. Evidence of root pressure. 2. Movement of soluble organic materials through plants 4. Negative pressure created by transpiration.  22. When water potential of accessory cells increase 1) Stomata open 2) Stomata closes 3) Stomata either opens or closes 4) Stomata neither opens nor closes 23. True statement regarding opening of stomata (2) Water potential gradient is essential 3) Light is essential. 4) Protons are essential.	16.	Protein part in a holo enz	yme is	(1)				
17. The reaction CO₂+ H₂O → H₂CO₃ requires  1) No enzyme  2) An entyme  3) Very high temperatures  4) Very low temperatures  18. Immunity that protects against intracellular bacteria, virus & cancer cells is  a) Innate immunity  b) Humoral immunity  c) Non-specific immunity  d) Cell mediated immunity  19. Stomatal Index is  1) Ratio between stomata and leaf surface area  2) Ratio between stomata per unit area and sum of epidermal cells and stomata of that unit are  3) Ratio between epidermal cells and stomata of that unit area  4) Ratio between sum of stomata and epidermal cells of a unit area and stomata of that area.  20. Ascent of sap is movement of water from  1) Soil into Xylem  2) Xylem into leaves  3) Xylem into atmosphere  4) Leaves into atmosphere  21. Guttation is  1. Evidence of root pressure.  2. Movement of water through the apoplast.  3. Movement of soluble organic materials through plants  4. Negative pressure created by transpiration.  22. When water potential of accessory cells increase  1) Stomata open  2) Stomata closes  3) Stomata either opens or closes  4) Stomata neither opens nor closes  23. True statement regarding opening of stomata  2) Water potential gradient is essential  3) Light is essential.  4) Protons are essential.		1) Apoenzyme	2)Simple enzyme	$\sim$				
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PRINCIPAL UTE OF		1) Wind is essential	1) Wind is essential 2) Water potential grad					
		3) Light is essential.	4) Protons are essentia	PRINCIPAL OF INSTITUTE OF INSTITUTE OF INSTITUTE OF INSTITUTE OF INSTITUTE (M),				
PHARMIN (V), Abdulian								
Gunthapan, Dist. Telame				/4				

24.	True statement regarding environmental factors is
	I: High wind velocity increases transpiration continuously
	II: As available water is pure rate of transpiration is maximum.
	III: Atmospheric pressure increases transpiration.
	IV: Light increases transpiration to certain extent
	1)I & II 2) II & III 3) Only IV 4) IV & II
25.	Apparently the source of energy for keeping stomata open is
1.	fon transfer 2. Transpiration
3.	Photosynthesis 4.Hydrogen bond formation
26	Transpiration rate is inversely proportional to
	1)Temperature 2) Light 3) Gentle breeze 4) High wind speeds
27.	Stomatal opening and closing depends on (4)
	H changes 2) Guard cell size
	Size of stomatal chamber  4) Solute concentration of guard cells
	Ouring stomatal closing
	Protons move actively into guard cells 2) Protons moves passively into guard cells.
	Chloride moves passively into guard cells. 4) Malate moves to adjacent cells.
,	purchase guida const.
29.	The reason that a column of water in a tall tree does not sink because of its weightis(1)
	The tensile strength of a column of water.
2. I	Bubbles form that are too large to be transported
3. 7	The presence of strong ion concentrations near the top of the tree
	The formation of hydrogen bonds with the plants vessels
	•
30 .8	tomata open during day and closes during night are called as

2) Scotoactive

4) Hypoactive

1)Photoactive

3)Amphiactive

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3	1)Rate	of the	transp	iration	from the uppe	er surf	ace and	l lower s	surface	of the		
	leaf ca	ın be k	nown l	by						( )	2)/	
	1. Bell jar experiment					2.	Cobalt	chloride	experi	ment		
	3. Gan	ong's p	otomet	er		4	.Ganon	g's suns	creen			
32	2) Asse	ertion (	( <b>A</b> ): Th	e diges	stive action of sa	livary	amylase	e stops w	hen the	e swallo	wed bolus	
	Enter	s the st	omach								17	
	Reason	n (R): S	Salivary	amyla	ase is inactivated	d at the	low pH	of gastr	ic juice			
	a. Both	A and	R are t	rue and	d the R is correct	t expla	nation o	of the A				
	b. Both	A and	R are t	rue bu	t the R is not con	rect ex	planatio	on of the	A			
	c. A is	true, b	ut the R	is fals	e							
	d. Both	A and	R are	false							3	
	33) Ma	atch th	e follov	ving				(b	7/			
	Colu	mn - I			Colur	nn-II		LD				
	A)	Haust	ra	. *	i) Pala	ite						
	B)	Uvula			ii) Na	sopalat	ine duc	t				
	C)	Saccu	lus rotu	ndus	iii) Ph	arynx						
	D)	Jacob	son's or	gan	iv) Co	lon						
					v) Ilei	ım						
		Α	В	C	В		A	B	C	D		
	a.	IV	I	V	II	b.	IV	I	V	III		
	c.	I	IV	II	V	d.	I	IV	III	V		
		•										_
34	) The	papilla	e arra	nged i	n semicircle at 1	the bas	se of tor	igue are	:		(1)	
	a.Fu	ıngiforı	m	b. Fi	liform	c. Fo	liate		d. Ci	rcumval	late	
												/
35	) Arr	ange th	ne follo	wing p	arts in the ston	nach w	all in t	he corre	ct sequ	ience fr	om CCY	
	theou	ter to t	he inne	er side								
	A. Cir	cular n	nuscle f	ibers	B. Serosa	C. M	luscular	is mucos	sa			
	D. Ob	lique n	nuscle f	ibers	E. Columnar	epithel	lium	F. Lo	ngitud	inal mus	scle fibers	
	G. Sul	bmucos	sa									
	a. B-F	-A-D-0	G-C-E	b. B	-A-F-D-G-C-E	c. B-	F-A-G-	D-C-E	d. B-	F-A-D-	C-G-E	

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			0 1 0
36). The cells that are not f	ound in the gastric glar	d of rabbit are	(a)
a.Oxyntic cells	b. Zymogen cells	c. Parietal cells	d. Kupffer cells
37) Choose the correct st	atement		AJ
a.Deficiency of protein	intake causes kwashiork	or	
b.Deficiency of fat inta	ke causes marasmus dise	ease	
c.Deficiency of magnes	sium causes seborrheic st	terility	
d.Deficiency of niacin	causes seborrheic dermat	titis	
20) shoos the sourcet of		CIT	
38) choose the correct a		Ca	
Salivary glands Char			
I) Infra-orbital - Situate	d below the eye orbit		
II) Parotid - Open	through Wharton's duct		€
III) Sub maxillary - Open	through Stensen's duct		
IV) Sub lingual - Situated	l below the tongue		
a. I and II b.	II and III c. III	and I d. I	and IV
· .			
39) Amino acids are the on	ly end products by the	action of which of th	ne following enzymes acts
on the protein const	ituents?		Ccx
	Carboxypeptidase c. Tr	ripeptidase . d. I	Dipeptidase
, , , , , , , , , , , , , , , , , , ,	71 1		
40) The detoxifying organ			(d7/
a. Liver b. Par	ncreas c. Spleer	d. Bone marrov	w Col 3/
41) In normal conditions, t	the lower oesonhageal s	nhincter prevents th	e regurgitataion
offood from the	ne lower besopningen s	pilineter prevents to	(A)/
onood nom the			
a.Cardiac stomach to pylo	oric stomach	b. Cardiac stomac	h to fundic stomach
c. Cardiac stomach to oe	sophagus	d. Pyloric stomach	n to cardiac stomach

Formation of glucose in liver from non-carbohydrates is called

b. Gluconeogenesis

c. Lipogenesis

42)

a.Glycogenesis

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d. Glycogenolysis

### 43) Match the followings

#### Cells

#### Secretion

- A) Zymogen Cells
- I) Mucus
- B) Neck Cells
- II) Pepsinogen
- C) Parietal Cells
- III) Gastrin
- D) G-Cells
- IV) Castle's intrinsic factor
- Α
- В
- D

II

- A
- B
- C I
  - D

III

- III a.
- I
- IV

C

- II b.
- IV Ι

- III c. IV I II
- d. II

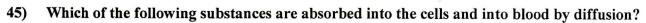
#### IV III

### 44) Read the following

- I. Health and vigour of epithelial tissues-vitamin A
- II. Health and integrity of muscles-vitamin E
- III. Integrity of endothelium -vitamin C
- IV. Functioning of gonads-vitamin E

Which of the above are true?

- a. All are true
- b. All except IV
- c. All except II
- d. All are false



a.Amino acids

b. Fructose

c. Short chain fatty acids

d. Long chain fatty acids



46) Following are the enzymes that act up on proteins. Arrange them in a sequence of their action

- a) Dipeptidase
- b) Pepsin
- c) Carboxypeptidase d) Tripeptidase
- e) Trypsin

- a. e-b-d-c-a
- b. b-e-c-d-a
- c. c-a-d-b-e
- d.d-c-a-b-d

47) Mineral required for the formation of insulin is

- a.Sulphur
- b. Iodine
- c. Cobalt
- d. Copper

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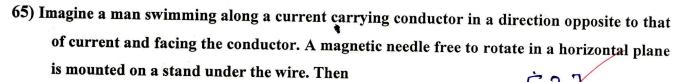
48	) Proteolytic enzyme	s which act in a	cidic medium are	1.3
	a.Chymotrypsin, re	ennin	b. Pepsin, Rennin	
	c. Pepsinogen, Tryp	sinogen	d. Pepsin, Trypsin	
49)	Correct statement f	rom the followi	ng is	Can.
	a.Pyloric sphincter re	egulates the flow	of food in to the duodenum	12
	b.Lower oesophageal	l sphincter preve	ents backward flow of food in	to duodenum
	c.Pylorus is present b	etween pyloric	stomach and fundic stomach	
	d.Cardia is present b	etween cardiac s	stomach and fundic stomach.	
50)	Stensen's duct and	wharton's duct	are associated with the follo	owing glands
	a.Parotid & sub max	illary	b. Parotid & sublingual	
	c. Sub maxillary &	0	d. Sublingual & Infra orbita	ľ
51)	Dietetics' is related	•	f	Col J
	a.Nutritional disorde		b. Chemical nature of food	(4)
	c. Food stuff and nu		d. Minerals & Vitamin	
52)	Decreased blood pre	essure, low pulse	e rate, lowers than normal	body temperature and
	mental retardation	are the sympto	oms of	CaJ/
	a.Obesity	b. Marasmus	c. Kwashiorkor	d. Carcinoma
53).	Many diseases can	be diagnosed b	y observing the symptoms i	n the patient. Which groups of
	symptoms are indic	ative of pneum	onia?	
	a. Difficulty in res	spiration, fever,	chills, cough, headache	CA J/
	b. Constipation, al	bdominal pain, c	eramps, blood clots	
	c. Nasal congestion	on and discharge	, cough, sore throat, headache	
	d. High fever, wea	akness, stomach	pain, loss of appetite and con	stipation
54)	Antibodies present i	in colostrum wh	nich protect the new born fr	om certain diseases is of
	a. Ig G type		c. Ig D type d. Ig E type	(b)
55).	Identify the third lin	ne of defense fro	om the following	
, ,			o a	(c)/
	a) NK cells	b) Tears	c) T cells	d) Phagocytes
56)	The chemical test th	at is used for di	iagnosis of typhoid is:	(d)
	a. ELISA-Test	b. ESR – Test	c. PCR – Test d. Widal-Test	
				O O
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	· ·		Guntha	R.R. Dist. Telangana.
				R.R. Dist. 10

	St.							
57)	\(\cdot\) = \(\cdot\)							
	, , ,							
	(1)North (2)East	(3)South (4)West						
58)	a) Malignant tumors exhibit metastasis b) Benign tumors are with a fibrous outer capsule c) Sarcomas are the malignant tumors of secondar d) Carcinomas are malignant tumors of the epithe							
59)	A square conducting loop of length L on a	side has a current'i'in it. The magnetic						
	induction at the centre of the loop is (1)Independent of $\boldsymbol{L}$	(2)Directly proportional L						
	(3)Inversely proportional to L	(4)Inversely proportional to L <sup>2</sup>						
60).	when an apparently healthy person is diagnose could be that:	d as unhealthy by a psychiatrist, the reason						
	a. The patient was not efficient at his work	Col						
	b. The patient was not economically prosperous							
	c. The patient shows behavioral and social maladju	stment						
	d. He does not take interest in sports							
	•	**						
61)	When no external force is acting on a system of j	particles, the centre of mass of the system						
	<ul><li>1) Remains at rest only</li><li>3) Moves with constant velocity or will be at re</li></ul>	2)Moves with constant velocity only st 4) Moves with variable velocity						
62)	Field at the centre of circular coilo fradius	through which a currentI flows is						
	(1)Directly proportionaltor	(2)Inversely proportionaltol						
	(3)Directly proportionaltoI	(4)Directly proportionaltoI <sup>2</sup>						
63)	Lines of magnetic field around a current car	rying straight conductor will be						
	1) Straight linesparallel to conductor	r37/						
	2) Circular in a plane parallel to conductor							
	3) Circular in a plane perpendicular to conductor							
	4)Straight perpendicular to conductor							
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## 64) Magnetic induction at a point due to a small element of current carrying conductor is

- 1) Inversely proportional tothesquare of the distance of the point fromt the conductor
- 2) Inversely proportional to the distance of the poin tform the conductor
- 3) Directly proportional to the square of the length of conductor
- 4) Directly proportional to the square of the current



- 1) The north pole of the needle e will deflect towards his left hand
- 2) The south pole of then needle willd deflect towards his left hand
- 3)Then needle will not deflect
- 4) Then needle will oscillate
- 66) Statement A: current is scalar.

(1)

StatementB:currentelementisvector.

- 1)A and B are true 2)A and B are false
- 3)Only A is ture
- 4)Only B is true

67) Statement(A):Ampere's laws tates that thel ine integral of  $B.d\ell$  along a closed path Round the current carrying conductor is equal to  $\mu_0 i$ Surface bounded by the closed path).

Statement(B): Ampere's law can be derived from Biotsavart's law.

1)A is true B is false 2)A is false B is true 3)A and B are true 4)A and B is false

68) A vertical straight conductor carries a current vertically upwards. A point P lies to the east of it as a small distance and another point Q lies to the west at the same

distance. The magnetic field at P is

- a. Greater than at Q
- b.Same as at Q
- c.Less than at Q
- d.Greater or less than a tQ depending upon the magnetic field of the current

C1 >

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69) Which of the following is a	pair of viral diseases	?	()	
Typhoid and tuberculosis c) Common cold and AIDS	b) Ring worm and A	AIDS ommon cold		
70) Where will you look for the	sporozoites of the n	ıalarial parasi	te?	
<ul><li>a) RBCs of Humans suffering</li><li>b) Saliva of infected female ar</li><li>c) Saliva of Infected female co</li><li>d) Spleen of infected humans.</li></ul>	from malaria	(2)		
	*		*	
71) The current through a cir	cular coil appears	to be flowing	in clock-wise dir	ection for
				27/
an observer. The magnet	T.		· ·	
e. Perpendicular to the p	lane of the coil and	towards the ol	oserver	<u> </u>
f. Perpendicular to the p	lane of the coil and	away from the	henver	
g. Parallel to plane of the			, observer	
h. Inclinedat450at the pla	nne of coil			
72) A long wire carries a ste	ady current.It is	bent into a	circle of one to-	
magnetic field at the centre	e of the coil B.It	s then bent	into a city	n and the
turns. The magnetic field at	the centre of the co	stren bent	into a circular lo	op of n
	the centre of the co	ii wiii be:		(1)
$1)nB   2)n^2B$	3	3)2nB	$4)2n^{2}B$	
•				
73)The magnetic field at the cer	itre of the current	carrying asili		
1)Directed normal to plan	-		(_	_# J /
	ie of the coil 2	Directed par	callel to plane of the	e coil
3)Zero	4	)Radial from	centre of the coil	Ŭ

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74) TI	ne electric curre	nt in a circu	ılar coil of ty	vo turns pr	oduced a magnetic i	nduction of
					in to a coil of four to	
					tesla (if the same cu	
	e coil)			3)~		ront nows m
1)0	).2	2)0.4		3)0.6	4)0.8	
75) II	n an atom the el	ectron has a	time period	of 0.16 x 1	0 <sup>-15</sup> s in a circular	orbit of radius
0.					e orbit will be (in tes	Ca D
1)1	2.56	2)125.6		3)1.256	4)25.12	
76) Ac	circular arc of w	ire subtend	s an angleπ/2	2 at the cen	tre. If it carries a cu	rrent i and its
1)μ <sub>0</sub> 77) The  rati  1)3: 2)√3	i $2)\mu_0$ i2F ratio of de Brog io 2:1 is : 2 : $\sqrt{2}$ 2: $\sqrt{3}$	R 3)μ <sub>0</sub> i	$4)\mu_0i8R$		e centre of the arc is	. 🗸
78) In lan	nthanides, with in	icrease in ato	mic number	atomic radi	us decreases, except fo	or the
	ent X, what X? d 1	C	42/		PRINCIPAL INSTITUTE OF THE PHARMACEUTICAL Gunthapally (V), and a R.R. Dist. Telephone (V), and	AL UTE OF SCIENCES (M).
					K.17.	

79) Dipole moment order of which of the following pairs of molecules is not correct?

1)HF > HCl

 $2)H_2S > CO_2$ 

 $3)NH_3 > NF_3$ 

 $4)CH_4 > CHCl_3$ 



80) X and Y are the two covalent molecules in which the hybridization of the central atoms is

same, but shapes are different. X and Y are

(d)

a.XeF<sub>4</sub>, NH<sub>3</sub>

b.XeF<sub>2</sub>, PF<sub>5</sub>

c.BF<sub>3</sub>, H<sub>2</sub>O

d.CH<sub>4</sub>, BeCl<sub>2</sub>

81) At same temperature and pressure, the rate of diffusion of gas 'X' is  $3\sqrt{3}$  times that of agaseous hydrocarbon of molar mass 54g mol<sup>-1</sup>. The molar mass of X in g mol<sup>-1</sup> is

1)16

2)2

3)32

4)28

82) From the given reaction

 $2KMnO_4 + 3H_2SO_4 + 5H_2O_2 \ \Box \ K_2SO_4 + 2MnSO_4 + 8H_2O + 5O_2$ 

Find the normality of  $H_2O_2$  solution, if 20mL of it is required to react completely with 16mL of  $0.02~MKMnO_4$  solution. (Molar mass of  $KMnO_4 = 158~g~mol^{-1}$ )

 $1)4 \times 10^{-2} \,\mathrm{N}$ 

 $2)2 \times 10^{-2} \text{ N}$ 

 $3)6 \times 10^{-2} \text{ N}$ 

4)8  $\times 10^{-2} \text{ N}$ 

(2)

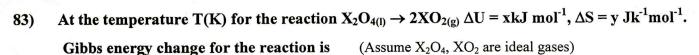
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1)1000 x + 2R (T - y)
$$J \text{ mol}^{-1}$$

$$2)1000 x + T (2R - y)J mol^{-1}$$

$$3)x + T (2R - y)J mol^{-1}$$

$$4)x + 2R (T - y)J mol^{-1}$$



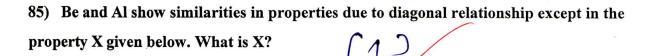
84) Arrange the aqueous solutions of the following salts in the increasing order of pH

### CuSO<sub>4</sub> NaCN KCl

II



III



- 1)Both form basic oxides and hydroxides
- 2) Ions of both have strong tendency to form complexes
- 3) In vapour phase chlorides of both have Cl bridged chloride structure
- 4)Chlorides of both are soluble in organic solvents

86) In the structure of B<sub>2</sub>H<sub>6</sub>, the number of BH<sub>2</sub> groups present in one plane, and the number of B-H bonds, B-B bonds, B-H-B bridge bonds are respectively



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I. Tin in +2 state acts as reducing agent while lead in +4 state acts as strong oxidizing agent

- II. Silicon exists as both  $[SiF_6]^{2-}$  and  $[SiCl_6]^{2-}$  forms
- The hybridization of carbon in fullerene is sp<sup>3</sup>
- IV. Among Ge, Sn and Pb lowest melting point is for Sn
- 1)I, IV 2) II,IV 3) II,III 4) III,IV

# 88). Methane of the polluted air reacts with ozone and forms the compound



$$H-C-H$$
,  $CH_2=CH-CHO$ 

- 3)  $CH_2 = CH-CHO, C_2H_5CHO$
- 4) CO<sub>2</sub>, H<sub>2</sub>O
- Assertion (A): Propene on addition with hydrogen bromide in the presence of peroxide 89) gives 1-Bromopropane as the major product

Reason (R): 1-Bromopropane is the major product because it is formed through the stablecarbocation

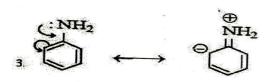
The correct answer is

- 1)(A) and (R) are correct, (R) is the correct explanation of (A)
- 2)(A) and (R) are correct but (R) is not the correct explanation of (A)
- 3)(A) is correct but (R) is not correct
- 4)(A) is not correct but (R) is correct
- 90). A metal crystallizes in two phases, one as fcc and other as bcc with unit cell edge lengths of 3.5A and 3.0 Arespectively. The ratio of density of fcc and bcc phasesapproximately is
  - 1)1.5:1.0
  - 2)1.0:1.5
  - 3)1.26:1
  - 4)1:1.26

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91. Which of the following represents the hyperconjugation effect?

<sup>2</sup> 
$$CH_3 - CH_2 - CH_2 \rightarrow C1$$

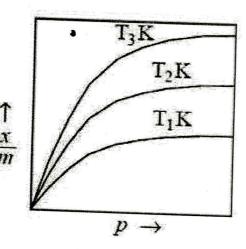


4. 
$$\mathbf{H} - \mathbf{C} - \mathbf{C} \oplus \longleftrightarrow \mathbf{H} + \mathbf{C} = \mathbf{C} \oplus \longleftrightarrow \mathbf{H} + \mathbf{H} + \mathbf{H}$$

- 1) 1 2) 2 3) 3
- 92). Freundlich adsorption isotherms for the physical adsorption of a gas at temperature

 $T_1, T_2$  and  $T_3$  are shown in the graph given below. The correct relationship between

 $T_1$ ,  $T_2$  and  $T_3$  is



 $1)T_1 < T_2 < T_3 \qquad 2)T_3 < T_1 < T_2 \quad 3)T_3 < T_2 < T_1 \qquad 4)T_2 < T_1 < T_3$ 

k	eyk	kk	kgı
	93	6).	Tł
		1	)Pl

93). The ore which is concentrated by leaching
1)PbS
2)Al <sub>2</sub> O <sub>3</sub> , 2H <sub>2</sub> O
3)SnO <sub>2</sub>
4)Fe <sub>2</sub> O <sub>3</sub>
94) Centre of mass of a body
1)Always lies inside the body  3) Always lies on the surface of the body  4) May lie inside or outside the body
95 )A bomb at rest explodes. The centre of mass of the system
1) Describes a parabola 3) Horizontally 2) Vertically upwards 4) Is at rest
96). Antigen presenting cells are a) Dendritic cells b) Activity
b) Activated macrophages c) B-Cells d)Dendritic cells, activated macrophages and B cells.
97) Which of the following chemicals is NOT involved in photochemical smog formation
1)SO <sub>2</sub> 2)O <sub>3</sub> 3)NO <sub>2</sub> 4)NO $1$
98). Gamma interferons are produced by
a) B lymphocytes b) Macrophages c) T lymphocytes d) Dendritic cell
99) The symbol of an element is Une. Its atomic number is (2)
1)110 2)109 3)101 4)108
100). An example for the less organised secondary lymphoid tissue
a) Thymus b) Spleen c) Lymph nodes d) Mucosal - associated lymphoid tissue
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# FREESHIP EXAMINATIONTEST 2020-21

Total Marks: 100

Name of the student: Y. Seddhartha

Avanthi Freeship No: ATPS 2020039

(68 100)

Duration: 180min

Date: 26 | 11 | 2020

	St					
1.	Maximum transpiration	n is by				
	1) Stomata 2) Cuticle		ž.	Lenticels	1) Cutiala	Pr. I
2.	Scotoactive stomata				+) Cuticle	& Lenticels
	1) Opens during day time	•		2) Opens du	ıring night tir	(2)
	3) Opens during Day & N	Night		4) Never op		ne 🥒
3.	Dumbbell shaped guard		are seen in	·) Trever op	CIIS	
	1) All monocots		iliaceae 3) (	iraminaceae	1) D	(3)
4.	Source of protons durin				(4) D	icotyledons
	1\ TTY	ıgars	3) Light	15	4) M. L.	(4)
5.	During opening of stoma			rells	4) Malate	
	I: Entry of K+ is active		II: Entry of Cl is active			(3)
	III: Export of H+ is active			f H <sub>2</sub> O is active		
	Correct statements are		, ,	- 1120 13 active		
	1) I & II 2) II	& III	3) I & III	4) I & IV		
6.	Transpiration can be der	nonstr		1) 2 20 1 1		( 0 ) (
	1) Ganong's potometer		2) Bell jar	experiment		
	3) Hydrilla experiment		4) Baromete			
7.	The factors that show in	ersely			with trans-	
				h	with transpi	ration /

1) Temperature & Humidity

2) Availability of water & Very high velocity of wind

3) Light & Temperature

4) Humidity & Very high velocity of wind

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8.	Assertion (A): Spino	ous plants transpir	e less	(2)	
	Reason(R): Spines	are adoptions of <b>x</b>	erophytic plants		
	1) Both A and R are	true and R is the co	rrect explanation	of A.	
	2) Both A and R are	true but R is not the	e correct explanat	tion of A.	
	3) A is true, R is fals		is false, R is true		
	8				
9.	Natural anti transp	irant in plants is		( (	
	1) Auxin	2) Malate	3) Proto	on 4) ABA	
		, 	n	(	3 )
10.	Transpiration play		2) Absorption	of water	
	1) Uptake & Transp		4) Distribution		
	3) Translocation of	solutes	4) Distribution		
	Transpiration is a	6-accepte avil 6-6	stated by	. ( )	18
11.		2) Arnon	3) Knop	4) Curtis	
	1) Slatyer	2) Amon	<b>5</b> )		
10	Phenyl mercuric a	ocetate (PMA) is		, (	31
12.		ed as an antitranspir	rant	~	
	2) A fungicide use			è	
		d as an antitranspira			
		one used as an anti			
	4) A grown norm		•	,	/
13.	Enzymes that use	ATP for their acti	vity is	(	2
	1) Kinases	2) Synthet	ases		
	3) Transferases	. 4) Hydrola	ases		
14	. Metallic co-factor	in carboxy peptid		(3)	
	1)Fe	2)Mn	3) Zn	4)Mg	/
				,	
15	. Third number in	the enzyme nome	iclature indicate		
	1)Sub-Subclass	2)SubClasses 3	)Major Classes	4)Serial number	,
				//	
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				R.R. Disc. 1012	

16.	Protein part in a holo enz	zyme is
*	1) Apoenzyme	2)Simple enzyme
	3)Conjugated enzyme	4)Inducive enzyme
17	The reaction CO   H O	W. GO
1.	The reaction $CO_2 + H_2O \leftarrow$ 1) No enzyme	
	3) Very high temperatures	2)An enzyme
	3) very mgn temperatures	4) Very low temperatures
18.	. Immunity that protects ag	ainst intracellular bacteria, virus & cancer cells is (中)
	<ul><li>a) Innate immunity</li><li>c) Non-specific immunity</li></ul>	b) Humoral immunity d) Cell mediated immunity
19.	Stomatal Index is	
	1) Ratio between stomata an	nd leaf surface area
	2) Ratio between stomata po	er unit area and sum of epidermal cells and stomata of that
	unit are	
	3) Ratio between epidermal	cells and stomata of that unit area
	4) Ratio between sum of sto	mata and epidermal cells of a unit area and stomata of that
	area.	
20.	Ascent of sap is movement	of water from
	1) Soil into Xylem	2) Xylem into leaves
	3) Xylem into atmosphere	4) Leaves into atmosphere
21.	Guttation is	
	1. Evidence of root pressure.	
	2. Movement of water through	
	3. Movement of soluble orga	nic materials through plants
22	4. Negative pressure created	
22.	When water potential of ac	cessory cells increase
	1) Stomata open	2) Stomata closes
23.	3) Stomata either opens or clo	Total Holdier Opens Hor Closes
23.	True statement regarding o	pening of stomata
	1) Wind is essential	2) Water potential gradient is essential
	3) Light is essential.	4) Protons are essential.
		8 PRINCIPAL DE
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		W.W.

24.	True state	ment regardin	g environmen	tal factors is	
				on continuously	(3)
				piration is maximum.	
		eric pressure in			
	IV: Light in	creases transpir	ration to certai	n extent	
	1)I & II	2) II	& III	3) Only IV	4) IV & II
25.	Apparently t	he source of e	nergy for kee	ping stomata open is	
1.	lon transfer		2.Transpirat	-	
3.	Photosynthesis		-	bond formation	
			, ,	-	*
26	Transniratio	n rata is invers		1 4 -	
	1)Temperature	n rate is invers			(4)
	r) romperature	2) Light	3) Gentle bree	ze 4) High wind s	peeds
27.	Stomatal oper	ning and closin	o denends on	¥	
	H changes	and closin	g depends on	2) Guard cell size	( u )
-	Size of stomata	l chamber		4) Solute concentrat	ion of mard calls
	Ouring stomate			i) solute concentrat	for or guard certs
			ard cells 2) Pr	otons moves passivel	y into guard cells
		s passively into		4) Malate moves to	
		7	Sum a como.	i) Maiate moves to	adjacent cens.
29.	The reason tha	it a column of	water in a tal	l tree does not sink l	because of its weightis(1)
		ngth of a colum			occurse of its weightis( ())
2. E	Bubbles form th	at are too large	to be transpor	ted	
3. T	he presence of	strong ion con	centrations nea	ar the top of the tree	
4. T	he formation of	f hydrogen bor	ds with the pl	ants vessels	
30 .S	tomata open d	luring day and	closes during	night are called as	
1)P	hotoactive	2) Sco	otoactive		
3)A	mphiactive	4) Hy	poactive	1	
					ODINGIPAL TE OF
				- CINAR	THI INSTITUTES
				AVAN	THI SCIENCE (M), RMAC SAMPUTMEN (M), Inally (M) Tolandana.
				Guntha	pally (). Telangana. R.R. Dist. Telangana.

# 31)Rate of the transpiration from the upper surface and lower surface of the

leaf can be known by

1. Bell jar experiment

2. Cobalt chloride experiment

3. Ganong's potometer

4. Ganong's sunscreen

32) Assertion (A): The digestive action of salivary amylase stops when the swallowed bolus

 $\binom{2}{2}$ 

Enters the stomach

Reason (R): Salivary amylase is inactivated at the low pH of gastric juice

- a. Both A and R are true and the R is correct explanation of the A
- b. Both A and R are true but the R is not correct explanation of the A
- c. A is true, but the R is false
- d. Both A and R are false

#### 33) Match the following

Co	lumn -	I			Column-II				
A)	Haus	tra			i) Palate				
B)	Uvul	a			ii) Nasopalat	tine duc	t		
C)	Sacc	ulus rot	undus		iii) Pharynx				
D)	Jacol	oson's c	rgan		iv) Colon				
					v) Ileum				
	Α	В	C	В		A	B	C	D
a.	IV	I	V	II	b.	IV	I	V	III
c.	I	IV	II	V	d.	Ι	IV	III	V

34) The papillae arranged in semicircle at the base of tongue are

a.Fungiform

b. Filiform

c. Foliate

d. Circumvallate



35) Arrange the following parts in the stomach wall in the correct sequence from theouter to the inner side

CC

- A. Circular muscle fibers
- B. Serosa
- C. Muscularis mucosa

- D. Oblique muscle fibers
- E. Columnar epithelium
- F. Longitudinal muscle fibers

- G. Submucosa
- a. B-F-A-D-G-C-E
- b. B-A-F-D-G-C-E
- c. B-F-A-G-D-C-E
- d. B-F-A-D-C-G-E



			I - C bbit awa		212
36).		ound in the gastric gland		d Wareffor colle	CEL
	a.Oxyntic cells	b. Zymogen cells	c. Parietal cells	d. Kupffer cells	
	-	,			
37)	Choose the correct st			C	a)
		intake causes kwashiorko	-	$\sim$	
		ke causes marasmus disea			
		ium causes seborrheic ste			
	d.Deficiency of niacin	causes seborrheic dermati	tis		
38)	choose the correct a	nswer		$Cd\mathcal{N}$	
S	alivary glands Chara	acter			
	) Infra-orbital - Situate	d below the eye orbit		*	
,		through Wharton's duct			
	II) Sub maxillary - Open				
	V) Sub lingual - Situated				
		II and III c. III	and I d.	I and IV	
					`
39)	Amino acids are the on	lly end products by the a	action of which of	the following enzyme	es acts
3))					
(	on the protein const			D:	
	a.Aminopeptidase b.	Carboxypeptidase c. Tri	peptidase d	Dipeptidase	
40)	The detoxifying organ	of the body is		(9)	
		ncreas c. Spleen	d. Bone marr	ow	
					(17)
41)	In normal conditions,	the lower oesophageal sp	phincter prevents	the regurgitataion	
	offood from the				
ş	Cardiac stomach to pylo	oric stomach	b. Cardiac stoma	ach to fundic stomach	
	c. Cardiac stomach to oe		d. Pyloric stoma	ch to cardiac stomach	
42)		e in liver from non-carb	(4		(4)
42)	Tormation of gracos	e in iiver itom non our	,		
	a.Glycogenesis	b. Gluconeogenesis	c. Lipogenesis	d. Glycogenoly	sis
				11	
				PRINCIP	AL OF
			_	AVANTH!	SCIENCES (M),
	, Ç			Gunthapally (N. A.C. R.R. Dist. Te	
				R.K. Dist.	

### 43) Match the followings



# Cells

#### Secretion

- A) Zymogen Cells
- I) Mucus
- B) Neck Cells
- II) Pepsinogen

II

II

- C) Parietal Cells
- III) Gastrin
- D) G-Cells
- IV) Castle's intrinsic factor
- A

III

C

D

III

a. III

c.

B

IV

- b.

d.

- II
- I
- II I IV III

### 44) Read the following



- I. Health and vigour of epithelial tissues-vitamin A
- II. Health and integrity of muscles-vitamin E
- III. Integrity of endothelium -vitamin C
- IV. Functioning of gonads-vitamin E

Which of the above are true?

- a. All are true
- b. All except IV
- c. All except II
- d. All are false

# Which of the following substances are absorbed into the cells and into blood by diffusion?

a.Amino acids

b. Fructose

c. Short chain fatty acids

d. Long chain fatty acids

### 46) Following are the enzymes that act up on proteins. Arrange them in a sequence of their action



- a) Dipeptidase
- b) Pepsin
- c) Carboxypeptidase d) Tripeptidase
- e) Trypsin

- a. e-b-d-c-a
- b. b-e-c-d-a
- c. c-a-d-b-e
- d.d-c-a-b-d

#### Mineral required for the formation of insulin is a.Sulphur b. Iodine c. Cobalt d. Copper

48)	Proteolytic enzymes which act in acidic medium are	
	a.Chymotrypsin, rennin b. Pepsin, Rennin	
	c. Pepsinogen, Trypsinogen d. Pepsin, Trypsin	
49)	Correct statement from the following is	
	a.Pyloric sphincter regulates the flow of food in to the duodenum	
	b.Lower oesophageal sphincter prevents backward flow of food into duodenum	
	c.Pylorus is present between pyloric stomach and fundic stomach	
	d.Cardia is present between cardiac stomach and fundic stomach.	
50)	and the sound of the associated with the following glands	
	a.Parotid & sub maxillary b. Parotid & sublingual	
	c. Sub maxillary & sublingual d. Sublingual & Infra orbital	
51)	Dietetics' is related to the study of	
	a. Nutritional disorders b. Chemical nature of food	
	c. Food stuff and nutrition d. Minerals & Vitamin	
52)	Decreased blood pressure, low pulse rate, lowers than normal body temperature and	
	mental retardation are the symptoms of	
	a. Obesity b. Marasmus c. Kwashiorkor d. Carcinoma	
53).	Many diseases can be diagnosed by observing the symptoms in the patient. Which groups of symptoms are indicative of pneumonia?	9
	a. Difficulty in respiration, fever, chills, cough, headache	\
	b. Constipation, abdominal pain, cramps, blood clots	
	c. Nasal congestion and discharge, cough, sore throat, headache	
	d. High fever, weakness, stomach pain, loss of appetite and constipation	
54)	Antibodies present in colostrum which protect the new born from certain diseases is of	,
	a. Ig G type b. Ig A type c. Ig D type d. Ig E type	,
55).	Identify the third line of defense from the following	C
	a) NK cells b) Tears c) T cells d) Phagocytes	
56)	The chemical test that is used for diagnosis of typhoid is:	
	a. ELISA-Test b. ESR – Test c. PCR – Test d. Widal-Test	
	AVANTH: INSTITUTE OF PHARMACT Abdullapurmet (M. Gunthapally (M. Abdullapurmet (M. R.R. Dist. Telangana.	=

	~			mı 1:	4	the mean	notio
57)		due north along a po			ection of	tne magi	letic
	field above it, negl	ecting the earth's fiel		CA)	/		
	(1)North	(2)East	(3)Sout	h	(4	)West	
	c) Sarcomas are the mal d) Carcinomas are malig	hibit metastasis ith a fibrous outer capsule lignant tumors of seconda gnant tumors of the epithe	ry lympho			,	
59)	A square conducting			a curre	at'i'in it.	The magn	1etic
	induction at the cer (1)Independent of L	ntre of the loop is	(2)Dire	ectly pro	portional	$\mathbf{L}$	<b>3</b> .
	(3)Inversely proportio	nal to L	(4)Inve	ersely pr	oportiona	al to L <sup>2</sup>	
60).	when an apparently h could be that:	ealthy person is diagnos	ed as unh	ealthy by	a psychi	atrist, the	reason (c
	a. The patient was not ef	fficient at his work				¥	
i car	b. The patient was not ed	conomically prosperous					
	c. The patient shows bel	navioral and social malad	justment				
	d. He does not take inter	rest in sports		5 d			
61)	When no external force	e is acting on a system of	f particles		tre of mas	ss of the sys	stem (b)
	1) Remains at rest on			2)Moves	with cons	tant velocity variable velo	y only
62	) Field at the centre o	of circular coilo fradiu	sr,throu	gh which	ı a curre	ntI flows i	is $(C)$
	(1)Directly proporti				roportion		$\sim$
	(3)Directly proportio	onaltoI	(4)Di	rectly pr	oportion	altoI <sup>2</sup>	<u> </u>
63)	Lines of magnetic fie	ld around a current ca	arrying s	traight c	onducto	r will be	(d),
	1) Straight linesparalle	l to conductor					$\prec$
	2) Circular in a plane p	arallel to conductor		1	11		
	3) Circular in a plane p	perpendicular to conductor	r		1	0	
	4)Straight perpendicu	lar to conductor		AVA	NTH!	NCIVAL	TE OF
		<b>*</b>		F	HARMACE thapally (	ist Telanga	na.

- 64) Magnetic induction at a point due to a small element of current carrying conductor is 1) Inversely proportional tothesquare of the distance of the point fromt the conductor 2) Inversely proportional to the distance of the poin tform the conductor 3) Directly proportional to the square of the length of conductor 4) Directly proportional to the square of the current 65) Imagine a man swimming along a current carrying conductor in a direction opposite to that of current and facing the conductor. A magnetic needle free to rotate in a horizontal plane is mounted on a stand under the wire. Then
- - 1) The north pole of the needle e will deflect towards his left hand
  - 2) The south pole of then needle willd deflect towards his left hand
  - 3) Then needle will not deflect
  - 4) Then needle will oscillate
- Statement A: current is scalar. 66)

StatementB:currentelementisvector.

1)A and B are true 2)A and B are false

3)Only A is ture 4)Only B is true

67) Statement(A):Ampere's laws tates that thel ine integral of B. Alalonga closed path Round the current carrying conductor is equal to  $\mu_0 i$ Surface bounded by the closed path).

Statement(B): Ampere's law can be derived from Biotsavart'slaw.

- 1)A is true B is false 2)A is false B is true 3)A and B are true 4)A and B is false
- 68) A vertical straight conductor carries a current vertically upwards. A point P lies to the east of it as a small distance and another point Q lies to the west at the same distance. The magnetic field at P is
  - a. Greater than at Q
  - b. Same as at Q
  - c.Less than at Q
  - d.Greater or less than a tQ depending upon the magnetic field of the current

69) Which of the following is a p	pair of viral diseases?	. ()	1) 1
a) Typhoid and tuberculosis c) Common cold and AIDS	b) Ring worm and AIDS d) Dysentery and comm	S on cold	
70) Where will you look for the	sporozoites of the mala	rial parasite?	(2)
<ul><li>a) RBCs of Humans suffering</li><li>b) Saliva of infected female and</li><li>c) Saliva of Infected female cut</li><li>d) Spleen of infected humans.</li></ul>	opheles mosquito		
	*		
71) The current through a cir	cular coil appears to b	e flowing in	clock-wise direction for
an observer. The magnet	ic induction at the cen	tre of the co	il is:
e. Perpendicular to the pl	lane of the coil and tow	ards the obse	rver
f. Perpendicular to the pl			
g. Parallel to plane of the			
h. Inclinedat45 <sup>0</sup> at the pla	ne of coil		
72) A long wire carries a ste	ady current.It is ben	t into a circ	cle of one turn and th o a circular loop of
turns. The magnetic field at t	the centre of the coil w	rill be:	2 /
1)nB   2)n2B	3)2n		4)2n <sup>2</sup> B
•			
3)The magnetic field at the cen	itre of the current car	rving coilis	(3)/
1)Directed normal to plan	•		el to plane ofthe coil
3)Zero	,		atre of the coil

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74) The elect	ric current i	n a circu	lar coil o	f two turns	produced a mag	gnetic induction of
					nd in to a coil of	
						ame current flows in
the coil)		(4)			(12 0110 5	and current nows in
, .				•		
1)0.2	2	0.4		3)0.6	4)0.	8
75) In an ato	om the electi	on has a	time per	iod of 0.16	x 10 <sup>-15</sup> s in a ci	rcular orbit of radius
0.5 A <sup>(</sup>	The magne	etic indu	rtion at tl	le centre of	f the orbit will be	Grand (1)
1)12.56		)125.6	cion at ti	3)1.256	4)25	
76) Acircular	ĺ		on angle	,	,	
						es a current i and its
radius of	curvature is	R then t	he magn	etic field at	the centre of the	arc is (4)
$1)\mu_0$ i	2)µ₀i2R	$3)\mu_0 i$	$4)\mu_0i8R$			
77) The ratio o	f de Broglie v	vave leng	ths of two	narticles h	eving mass vatic 1	: 3 and kineticenergy
			on the	ا ما المادادة, الماد		: 3 and kineticenergy
ratio 2 : 1 i	S			(3)	$\propto$	
1)3:2						
$2)\sqrt{3}:\sqrt{2}$	_					
3) $\sqrt{2}$ : $\sqrt{3}$	•					
4)2 : 3						
78) In lanthanid	es, with incre	ease in ato	mic numl	oer atomic r	adius decreases, e	except for the
element X, v				(2)		<b>.</b>
1)Gd						* * * *
2)Eu			1	*	11	
3)Tm						
4)Dy					1	RINCIPAL OF
				ė	MANTH	CELESCAL SCIENCE (M)
	* <u>L</u> .			· ·	PHARM	OEV Abdullapurmet (M)  (V) Abdullapurmet  (N) Tolangana.
	•				R.	

Dipole moment order of which of the following pairs of molecules is not correct? 79)



1)HF > HC1

 $2)H_2S > CO_2$ 

3) $NH_3 > NF_3$ 

 $4)CH_4 > CHCl_3$ 

X and Y are the two covalent molecules in which the hybridization of the central atoms is 80) same, but shapes are different. X and Y are \*

a.XeF<sub>4</sub>, NH<sub>3</sub>

b.XeF<sub>2</sub>, PF<sub>5</sub>

c.BF<sub>3</sub>, H<sub>2</sub>O

d.CH<sub>4</sub>, BeCl<sub>2</sub>

81) At same temperature and pressure, the rate of diffusion of gas 'X' is  $3\sqrt{3}$  times that of agaseous

hydrocarbon of molar mass 54g mol<sup>-1</sup>. The molar mass of X in g mol<sup>-1</sup> is



1)16

2)2

3)32

4)28

82) From the given reaction

 $2KMnO_4 + 3H_2SO_4 + 5H_2O_2 \square K_2SO_4 + 2MnSO_4 + 8H_2O + 5O_2$ 

Find the normality of H<sub>2</sub>O<sub>2</sub> solution, if 20mL of it is required to react completely with 16mLof 0.02 MKMnO<sub>4</sub> solution. (Molar mass of KMnO<sub>4</sub> = 158 g mol<sup>-1</sup>)



 $2)2 \times 10^{-2} \text{ N}$ 

 $3)6 \times 10^{-2} \text{ N}$ 

4)8  $\times 10^{-2}$  N

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83) At the temperature T(K) for the reaction  $X_2O_{4(l)} \rightarrow 2XO_{2(g)} \Delta U = xkJ \text{ mol}^{-1}, \Delta S = y Jk^{-1}\text{mol}^{-1}$ .

Gibbs energy change for the reaction is



 $1)1000 x + 2R (T - y)J mol^{-1}$ 

$$2)1000 x + T (2R - y)J mol^{-1}$$

$$3)x + T (2R - y)J mol^{-1}$$

$$4)x + 2R (T - y)J mol^{-1}$$

84) Arrange the aqueous solutions of the following salts in the increasing order of pH



## CuSO<sub>4</sub> NaCN KCl

III

85) Be and Al show similarities in properties due to diagonal relationship except in the property X given below. What is X?



- 1) Both form basic oxides and hydroxides
- 2) Ions of both have strong tendency to form complexes
- 3) In vapour phase chlorides of both have Cl bridged chloride structure
- 4)Chlorides of both are soluble in organic solvents
- 86) In the structure of B<sub>2</sub>H<sub>6</sub>, the number of BH<sub>2</sub> groups present in one plane, and the number of B-H bonds, B-B bonds, B-H-B bridge bonds are respectively



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87) Identify the incorrect statements from the following



- I. Tin in +2 state acts as reducing agent while lead in +4 state acts as strong oxidizing agent
- II. Silicon exists as both  $[SiF_6]^{2-}$  and  $[SiCl_6]^{2-}$  forms
- III. The hybridization of carbon in fullerene is sp<sup>3</sup>
- IV. Among Ge, Sn and Pb lowest melting point is for Sn
- 1)I, IV 2) II,IV 3) II,III 4) III,IV
- 88). Methane of the polluted air reacts with ozone and forms the compound



1)

$$H-C-H$$
,  $CH_2=CH-CHO$ 

- 2)
- 3)  $CH_2 = CH-CHO, C_2H_5CHO$
- 4) CO<sub>2</sub>, H<sub>2</sub>O
- 89) Assertion (A): Propene on addition with hydrogen bromide in the presence of peroxide gives 1-Bromopropane as the major product
  - Reason (R): 1-Bromopropane is the major product because it is formed through the stablecarbocation

The correct answer is

- 1)(A) and (R) are correct, (R) is the correct explanation of (A)
- 2)(A) and (R) are correct but (R) is not the correct explanation of (A)
- 3)(A) is correct but (R) is not correct
- 4)(A) is not correct but (R) is correct
- 90). A metal crystallizes in two phases, one as fcc and other as bcc with unit cell edge lengths of 3.5 A and 3.0 Arespectively. The ratio of density of fcc and bcc phasesapproximately is
  - 1)1.5:1.0
  - 2)1.0:1.5
  - 3)1.26:1
  - 4)1:1.26

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91. Which of the following represents the hyperconjugation effect?



$$1 > C = C + CN \longrightarrow C - C < C$$

<sup>2</sup> 
$$CH_3 - CH_2 - CH_2 \rightarrow C1$$

$$\begin{array}{ccc}
& & & & \oplus \\
& & & & & \downarrow \\
& & & & & & & \downarrow \\
& & & & & & & & & \downarrow
\end{array}$$

4. 
$$H - C - C \oplus \longleftrightarrow H \xrightarrow{H} H$$

H H

 $C = C$ 

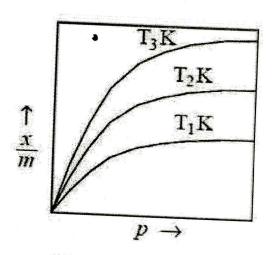
H H

 $H \to H$ 

92). Freundlich adsorption isotherms for the physical adsorption of a gas at temperature (3)

 $T_1, T_2$  and  $T_3$  are shown in the graph given below. The correct relationship between

 $T_1$ ,  $T_2$  and  $T_3$  is



 $1)T_1 < T_2 < T_3 \qquad 2)T_3 < T_1 < T_2 \quad 3)T_3 < T_2 < T_1 \qquad 4)T_2 < T_1 < T_3$ 

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93). The ore which is concentrated by leaching 1)PbS
2)Al <sub>2</sub> O <sub>3</sub> , 2H <sub>2</sub> O
3)SnO <sub>2</sub>
4)Fe <sub>2</sub> O <sub>3</sub>
94) Centre of mass of a body
1) Always lies inside the body  3) Always lies on the surface of the body  4) May lie inside or outside the body
95 )A bomb at rest explodes. The centre of mass of the system
1) Describes a parabola 2) Vertically upwards 4) Is at rest
96). Antigen presenting cells are a) Dendritic cells b) Activated means have
b) Activated macrophages c) B-Cells d)Dendritic cells, activated macrophages and B cells.
97) Which of the following chemicals is NOT involved in photochemical smog formation
$1)SO_2$ $2)O_3$ $3)NO_2$ $4)NO$
98). Gamma interferons are produced by
a) B lymphocytes b) Macrophages c) T lymphocytes d) Dendritic cell
99) The symbol of an element is Une. Its atomic number is
1)110 2)109 3)101 4)108
a) Thymus b) Spleen c) Lymph nodes d) Mucosal - associated lymphoid tissue



(Approved by PCI, AICTE & Affiliated to JNTUH)







#### **AVANTHI FREESHIP STUDENTS**

#### ACADEMIC YEAR

#### 2020-2021

The following is the list of students 62 are selected from Avanthi Freeship Policy test conducted on 17/11/20,26/11/20 and 04/12/21. Based on the merit of the test results, the fee concession is given to the below students.

#### Freeship Test Marks

S.No	Freeship No	Name of the student	Marks
1	AIPS2020001	ADEPU RAMAKRISHNA	86
2	AIPS2020003	AMBEERI SATHWIKA	84
3	AIPS2020005	ADEEBA AFREEN	80
4	AIPS2020006	BHUKYA SANTHOSH	75
5	AIPS2020008	BIRUDOJU LAXMI PRASANNA	61
6	AIPS2020009	CHILUMULA ABHINAY	60
7	AIPS2020010	CHINCHILAPU PAVANI	57
8	AIPS2020011	D SWAPNA	70
9	AIPS2020012	DUBBA NAGESWARAMMA	58
10	AIPS2020014	GANJI NARMADA	74
11	AIPS2020016	GUDIPATI SWATHI	61
12	AIPS2020017	JATAVATH RAJESWARI	60
13	AIPS2020019	JATAVATH SWETHA	57
14	AIPS2020020	KALIKINI PRATHYUSHA	59
15	AIPS2020021	KALUMADI DURGA SRI VEDA	58
16	AIPS2020022	KATTEBOINA JAYA PRASANNA	83
17	AIPS2020024	MALOTHU PAVAN KALYAN	74
18	AIPS2020025	MOHAMMED MUJEEB UR RAHMAN	60
19	AIPS2020026	MOTE DEEPTHI	58
20	AIPS2020027	NARLA SRICHAITRA	72
21	AIPS2020029	NENAVATH SIDDU	69

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\* SPOULLAPU

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# AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES







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22	AIPS2020030	P NIHARIKA	57
23	AIPS2020031	PRAVEEN KUMAR M	59
24	AIPS2020032	SARILLA HEPHZIBAH	58
25	AIPS2020033	SUMAIYA FATIMA	82
26	AIPS2020035	TALARI SAI PRIYANKA	81
27	AIPS2020036	URADI MOUNIKA	71
28	AIPS2020037	VUSTELA SHIVANI	57
29	AIPS2020039	YEDE SIDDHARTHA	68
30	AIPS2020040	YEDLA SAMPATH KUMAR	58
31	AIPS2020041	BOBBA SURYA CHANDRIKA	59
32	AIPS2020042	CHAKALI VENKATESH	57
33	AIPS2020043	MOTKUPALLI SWATHI	58
34	AIPS2020045	PAKALA HARSHINI	79
35	AIPS2020047	SARIKONDA VISHNU VARUN	60
36	AIPS2020048	THUMMALAPALLY HEMA	67
37	AIPS2020049	U HARITHA	57
38	AIPS2020050	VELPULA AKLESH	59
39	AIPS2020053	AADIL REZA	66
40	AIPS2020054	ANAGANTI SAIRAHUL	58
41	AIPS2020056	BOMMINI RAGHAVENDRA	59
42	AIPS2020057	GUGULOTH RAJESH	65
43	AIPS2020059	MD SARFARAZ ALAM	58
44	AIPS2020060	MUNTASHIR ALAM	57
45	AIPS2020061	PALEM PARAMESH	59
46	AIPS2020063	POKALKAR SAMPATH KUMAR JEE	78
47	AIPS2020065	THIGULLA MANASA	64
48	AIPS2020067	YEMOLLA MAHESH	59
49	AIPS2020069	BATTU RAMA KRISHNA	63
50	AIPS2020070	GANTA SURAJ KUMAR	59
51	AIPS2020071	GINNARAM SRIDHAR	58
52	AIPS2020072	GUDIPALLI DHARMARAJU	57
53	AIPS2020073	GUNTOJU DURGAVASANTHI	85

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\*ABDULLAPUPM

PRINCIPAL OF AVANTH'S TITUTE OF PHARMACE STICAL SCIENCES Qunthapally (V), Abdullapurmet (M), R.R. Dist. Telangana.









54	AIPS2020075	PAVILLA SWETHA	77
55	AIPS2020076	PEDDA ASHAPOLA MANISHA	58
56	AIPS2020077	POREDDY SHARVANI	57
57	AIPS2020079	THAMMALA VAISHNAVI	57
58	AIPS2020080	CHOLLETI ANUSHA	59
59	AIPS2020081	MOHAMMAD MUNTAZ AHMED	62
60	AIPS2020083	B SHREYA	58
61	AIPS2020085	PUSULURI SAI SRI HARSHA	76
62	AIPS2020087	SUNCHIKALA LAVAN	58

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Pechnical Education AVANTA

PHARMAC

SCIENCES Abdullapurmet (M).

Gunthapally (V), Abduitapurm R.R. Dist. Telangana.



# AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES

(Approved by PCI, AICTE & Affiliated to JNTUH)







# APPLICATION TO AVAIL FREESHIP/CONCESSION 2020-2021

1. Name of the Student: A. Rama Krishra
2. Registered no:20G.N.I. P. 0.00 1
3. Branch:
4. Father name: A. Anjaiah
5. Mother Name: Onthe
6. Father Occupation:
7. Mother Occupation: House wife
8. Parent Income:
9. Residential Address: 6-95/A., Lak Shma Reddy palem, peddambely 10. Community & Caste:
10. Community & Caste: 13 C
11. Eamcet Rank: 25 780
12. Convenor / Management:
13. Previous Education details:
a. School Studied: Zef. H. School
b. S.S.C Grade / Percentage:
c. Intermediate Studied: T. C. W. R. E. S
d. Intermediate Percentage :
Date: 05/12/21 Signature

PRINCIPAL INSTITUTE OF

PHARMACEUTICAL SCIENCES
Gunthapally (V), Abdullapurmet (M),
R.R. Dist. Talangana.



(Approved by PCI, AICTE & Affiliated to JNTUH)







### **APPLICATION TO AVAIL FREESHIP/CONCESSION** 2020-2021

1. Name of the Student: DANGAD & SWAPNA
2. Registered no: 20GNIR CO 15
3. Branch: B-phalmaly Isty.
4. Father name: D. Nassimuelu
5. Mother Name: D. plameela
6. Father Occupation: Agent Culture
7. Mother Occupation: Housewife
8. Parent Income: 1001000
9. Residential Address: Mazikel, Kulka Chaele, Ranga Reddy.
10. Community & Caste:
11. Eamcet Rank: 35 9 de
12. Convenor / Management: Convence
13. Previous Education details: 10th Inlee
a. School Studied: ZipiHischool
b. S.S.C Grade / Percentage: 4.5 (A+)
c. Intermediate Studied: P.S. attriba Jl. College
d. Intermediate Percentage :
Date: 18/12/20  PRINCIPAL  PRINCIPAL  INSTITUTE OF  AVANTH: INSTITUTE OF  PHARMACEUTICAL SCIENCES  PHARMACEUTICAL SCIENCE
PHARMACTITICAL SCIENCE (M), PH



(Approved by PCI, AICTE & Affiliated to JNTUH)







## **APPLICATION TO AVAIL FREESHIP/CONCESSION** 2020-2021

1. Name of the Student: PAICALA HARSHTNT
2. Registered no: 200 N120066
3. Branch: B. Pha Ymaly Ist Year
4. Father name: P. Rojendra Praged Rao
5. Mother Name:
6. Father Occupation: Private employee
7. Mother Occupation: House wife
8. Parent Income:1
9. Residential Address: 12-1-364/2 Indvalrastha Colony Bondlaguda Nogolé
10. Community & Caste:
11. Eamcet Rank:317.58
12. Convenor / Management:Mayage ment
13. Previous Education details:
a. School Studied:
b. S.S.C Grade / Percentage: A.A. S. S.
c. Intermediate Studied: Syl Chaitanya Junior College
d. Intermediate Percentage :

Date: 16 | 12 | 2020

PRINCIPAL OF SCIENCES Gunthapally (V), Abdullapurmet (M), R.R. Dist. Telangana.



# AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES

(Approved by PCI, AICTE & Affiliated to JNTUH)







1. Name of the Student: BHOKYA. SANTHOSH
2. Registered no: 20.6.NIR.0008
3. Branch: B-pharmacy I styles
4. Father name: R. lachikam
5. Mother Name: 6. Mountka
6. Father Occupation:
7. Mother Occupation:
8. Parent Income: 1, 46,000
9. Residential Address: Vaslam Thanda, Melli Kudur, Mahabubaba
10. Community & Caste:
11. Eamcet Rank: 410 41
12. Convenor / Management:
a. School Studied: Boxt high school
b. S.S.C Grade / Percentage:
c. Intermediate Studied: See balasi J.L. College
d. Intermediate Percentage : 47 1/.
Date: 30 12/20  PRINCIPAL  PRINCIPAL  PRINCIPAL  Sciences  AVANTH!  PHARMACE  PHARMACE  PHARMACE  R.R. Dist. Telangana.  R.R. Dist. Telangana.



(Approved by PCI, AICTE & Affiliated to JNTUH)





### **APPLICATION TO AVAIL FREESHIP/CONCESSION** 2020-2021

1. Name of the Student: YEDE SIDDIJARTHA
2. Registered no: 2007.N1R06.57
3. Branch: B. Pharmacy Ist Year
4. Father name:
5. Mother Name: Y Swapra
6. Father Occupation:
7. Mother Occupation:
8. Parent Income: 9.5000)—
9. Residential Address: HNO: 1-49 DUY (ci (v) Nasur labad (m) karnaveddy (D)
10. Community & Caste:
11. Eamcet Rank: 2.1330
12. Convenor / Management:Co.xi.ve.xi.o.x
13. Previous Education details:
a. School Studied: ALShava high 3 chool
b. S.S.C Grade / Percentage:
c. Intermediate Studied: Navayana Junior College
d. Intermediate Percentage :
Date: 20   12   2020

PRINCIPAL OF INSTITUTE OF INSTITUTE OF ACEUTICAL SCIENCES (M), Abdullapurmet (M), Abdullapurmet (M), Gunthapally (V), Abdullapurm R.R. Dist. Telangana.







Gunthapally, Date: 28-12-2020.

From

The Prinicipal,

Avanthi Institute of Pharmaceutical Sciences,

Gunthapally.

To

Chairperson

Governing Body (GB),

Avanthi Institute of Pharmaceutical Sciences,

Gunthapally.

Dear Sir/Madam,

Sub: Request to sanction of Freeship Amount.

**Reference**: 1. Avanthi Freeship & Merit Scholarship Policy.

This is to inform you that Avanthi Institute of Pharmaceutical Sciences conducted an exam "Avanthi Freeship Policy Test" on 17-11-2020, 26-11-2020 and 04-12-2020 to the students, who are willing to join in Avanthi Institute of Pharmaceutical Sciences in first year B.Pharm and Pharm.D program for the academic year 2020-21. Based on their performance in the test, they were awarded marks and eligibility for Freeships in accordance with rules and regulations of Freeship internal policy. I enclose the list of 62 students, who are qualified in the test for your reference. In this regard, I request you to please forward this students list to the Governing Body for sanctioning the Freeship amount for further proceedings.

The details are also enclosed for your consideration

Committed to Excellen

Thanking you sir

PHARMAC

Yours faithfully,

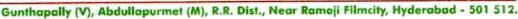
PRINCIPAL

eat Education

R.R. Dist. Telangana.



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### **AVANTHI FREESHIP STUDENTS**

### ACADEMIC YEAR 2020-2021

The following is the list of students 62 are selected from Avanthi Freeship Policy test. Based on the merit of the results, the fee concession is given to the below students.

S.No	Course	Hall Ticket No	Name of the student	Amount	
1	I YR B.PH	20GN1R0001	ADEPU RAMAKRISHNA	15000	
2	I YR B.PH	20GN1R0002	AMBEERI SATHWIKA	14000	
3	I YR B.PH	20GN1R0004	ADEEBA AFREEN	12000	
4	I YR B.PH	20GN1R0008	BHUKYA SANTHOSH	9500	
5	I YR B.PH	20GN1R0009	BIRUDOJU LAXMI PRASANNA	3000	
6	I YR B.PH	20GN1R0012	CHILUMULA ABHINAY	2500	
7	I YR B.PH	20GN1R0013	CHINCHILAPU PAVANI	1000	
8	I YR B.PH	20GN1R0015	D SWAPNA	7500	
9	I YR B.PH	20GN1R0017	DUBBA NAGESWARAMMA	1500	
10	I YR B.PH	20GN1R0018	GANJI NARMADA	9000	
11	I YR B.PH	20GN1R0020	GUDIPATI SWATHI	3000	
12	I YR B.PH	20GN1R0023	JATAVATH RAJESWARI	2500	
13	I YR B.PH	20GN1R0024	JATAVATH SWETHA	1000	
14	I YR B.PH	20GN1R0025	KALIKINI PRATHYUSHA	2000	
15	I YR B.PH	20GN1R0026	KALUMADI DURGA SRI VEDA	1500	
16	I YR B.PH	20GN1R0027	KATTEBOINA JAYA PRASANNA	13500	
17	I YR B.PH	20GN1R0033	MALOTHU PAVAN KALYAN	9000	
18	I YR B.PH	20GN1R0034	MOHAMMED MUJEEB UR RAHMAN	2500	
19	I YR B.PH	20GN1R0035	MOTE DEEPTHI	1500	
20	I YR B.PH	20GN1R0038	N1R0038 NARLA SRICHAITRA		
21	I YR B.PH	20GN1R0041	NENAVATH SIDDU	7000	
22	I YR B.PH	20GN1R0042	P NIHARIKA	1000	
23	I YR B.PH	20GN1R0047	PRAVEEN KUMAR M	2000	
24	I YR B.PH	20GN1R0048	SARILLA HEPHZIBAH	1500	

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\* ABOULLAPY

SCIENCES Gunthapally (V), Abdullapurmet (M), R.R. Dist. Telangana.











25	I YR B.PH	20GN1R0052	SUMAIYA FATIMA	13000
26	I YR B.PH	20GN1R0054	TALARI SAI PRIYANKA	12500
27	I YR B.PH	20GN1R0055	URADI MOUNIKA	8000
28	I YR B.PH	20GN1R0056	VUSTELA SHIVANI	1000
29	I YR B.PH	20GN1R0057	YEDE SIDDHARTHA	6500
30	I YR B.PH	20GN1R0058	YEDLA SAMPATH KUMAR	1500
31	I YR B.PH	20GN1R0061	BOBBA SURYA CHANDRIKA	2000
32	I YR B.PH	20GN1R0062	CHAKALI VENKATESH	1000
33	I YR B.PH	20GN1R0065	MOTKUPALLI SWATHI	1500
34	I YR B.PH	20GN1R0066	PAKALA HARSHINI	11500
35	I YR B.PH	20GN1R0067	SARIKONDA VISHNU VARUN	2500
36	I YR B.PH	20GN1R0068	THUMMALAPALLY HEMA	6000
37	I YR B.PH	20GN1R0069	U HARITHA	1000
38	I YR B.PH	20GN1R0070	VELPULA AKLESH	2000
39	I YR B.PH	20GN1R0072	AADIL REZA	5500
40	I YR B.PH	20GN1R0073	ANAGANTI SAIRAHUL	1500
41	I YR B.PH	20GN1R0076	20GN1R0076 BOMMINI RAGHAVENDRA	
42	I YR B.PH	20GN1R0082	GUGULOTH RAJESH	5000
43	I YR B.PH	20GN1R0087	MD SARFARAZ ALAM	1500
44	I YR B.PH	20GN1R0089	MUNTASHIR ALAM	1000
45	I YR B.PH	20GN1R0092	PALEM PARAMESH	2000
46	I YR B.PH	20GN1R0094	POKALKAR SAMPATH KUMAR JEE	11000
47	I YR B.PH	20GN1R0097	THIGULLA MANASA	4500
48	I YR B.PH	20GN1R00A0	YEMOLLA MAHESH	2000
49	I YR PH.D	20GN1T0001	BATTU RAMA KRISHNA	4000
50	I YR PH.D	20GN1T0002	GANTA SURAJ KUMAR	2000
51	I YR PH.D	20GN1T0003	GINNARAM SRIDHAR	1500
52	I YR PH.D	20GN1T0004	GUDIPALLI DHARMARAJU	1000
53	I YR PH.D	20GN1T0005	GUNTOJU DURGAVASANTHI	14500
54	I YR PH.D	20GN1T0011	PAVILLA SWETHA	10500
55	I YR PH.D	20GN1T0012 PEDDA ASHAPOLA MANISHA		1500
56	I YR PH.D	20GN1T0013	ARMAÇA POREDDY SHARVANI	1000

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PRINCIPA PLUTE OF AVANTH! SCIENCES PHARMAC Gunthapaliy (V), Abdullapurmet (M), R.R. Dist. Telangana.









Gunthapally (V), Abdullapurmet (M), R.R. Dist., Near Ramoji Filmcity, Hyderabad - 501 512.

57	I YR PH.D	20GN1T0015	THAMMALA VAISHNAVI	1000
58	I YR PH.D	20GN1T0016	CHOLLETI ANUSHA	2000
59	I YR PH.D	20GN1T0017	MOHAMMAD MUNTAZ AHMED	3500
60	I YR PH.D	20GN1T0022	B SHREYA	1500
61	I YR PH.D	20GN1T0027	PUSULURI SAI SRI HARSHA	10000
62	I YR PH.D	20GN1T0028	SUNCHIKALA LAVAN	1500

Total students: 62

Total Amount: Rs 2,93,000

dullapurmet (M),

R.R. Dist. Telangana.





With reference to the application received, you have been sanctioned the below concession / free ship.

Name A. Ramakasshna S/0/D/0 A. Anjaich

Branch B-phalmaly Roll number 2 DGNIRODO! Concession / free ship

in tuition fee / Hospital fee / Transportation fee / JNTU fee / amount in Rs .1.5.1000...





With reference to the application received, you have been sanctioned the below concession / free ship.

Name D. Swap na S/0/D/0 D. Nosas mulu

Branch B-pheamaly Roll number 209 NIROD 15. Concession / free ship in tuition fee / Hospital fee / Transportation fee / JNTU fee / amount in Rs . 7.15.00...





With reference to the application received, you have been sanctioned the below concession / free ship.

Name p. Hasshini S/0/D/0 p. Ragendra prasad

Branch B. pharmaly Roll number 20 G. NIR 0066. Concession / free ship

in tuition fee / Hospital fee / Transportation fee / JNTU fee / amount in Rs 11.1.5.0.0....







With reference to the application received, you have been sanctioned the below concession / free ship.

Name B. Santhosh S/0/D/0 B. Lachi Ram

Branch B-phalmaly Roll number 20 GN/RODOF. Concession / free ship in tuition fee / Hospital fee / Transportation fee / JNTU fee / amount in Rs. 9500.

Director





With reference to the application received, you have been sanctioned the below concession / free ship.

Name y. Siddardha S/0/D/0 y. Venkatesh

Branch B-phermacy Roll number 20 GNIR 0057 Concession / free ship

in tuition fee / Hospital fee / Transportation fee / JNTU fee / amount in Rs. 6,5.0...

Mapurmet (M).

**Technical Education** 

Dist. Talangana.



# AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES

(Approved by PCI, AICTE & Affiliated to JNTUH)







Our institution committed to provide freeships to poor and economically backward students. It is applicable to the students who do not have parents or either father or mother has lost their lives they could avail the opportunity. We also offer freeships whose parental annual income less than one lakh. We ensure that this financial support will helps the students to reach their goals. Here we are providing the list of students to whom we have provided freeship from college along with their requested letters.

S.No	Course	Hall Ticket No	Name of the student	Amount
1	II YR B.PH	19GN1R0001	A DHARMATEJA	3000
2	II YR B.PH	19GN1R0003	19GN1R0003 ARROLLA ARUNA	
3	II YR B.PH	19GN1R0004	ATHARI PAVANI	3000
4	II YR B.PH	19GN1R0010	CHENNALA VAISHNAVI REDDY	3000
5	II YR B.PH	19GN1R0015	DYAGALA DEEPIKA	3000
6	II YR B.PH	19GN1R0022	JOGA MADHU	3000
7	II YR B.PH	19GN1R0026	KANNA MADHU	3000
8	II YR B.PH	19GN1R0027	KARRE KALYAN	5000
9	II YR B.PH	19GN1R0030	KURMA NAVYASRI	6000
10	II YR B.PH	19GN1R0032	ABBANABOINA SRAVYA SRI	5000
11	II YR B.PH	19GN1R0036	036 APPALLA VAMSY SUBBA RAO	
12	II YR B.PH	19GN1R0046	R0046 GADDAM SNEHA	
13	II YR B.PH	19GN1R0063	GN1R0063 GUTTI MAHESH	
14	II YR B.PH	19GN1R0065	MUTHYALA SHIREESHA	
15	II YR B.PH	19GN1R0069	SHARAN BABU	3000
16	II YR B.PH	19GN1R0071	AEDLA HARISH	3000
17	II YR B.PH	19GN1R0075	BARLA RAM	3000
18	II YR B.PH	19GN1R0077	CHENNOJU SHASHANK	5000
19	II YR B.PH	19GN1R0083	GUNTUKU MADHUSUDHAN KUMAR	5000
20	II YR B.PH	19GN1R0085	K. RAHUL	5000
21	II YR B.PH	19GN1R0089	NAKKA SUPRIYA	5000
22	II YR B.PH	19GN1R0092	NATTE VASANTH	5000
23	III YR B.PH 18GN1R0001 ANGALA PADMAKSH			5000

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\*ABDULL BOY

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PHARMAC CLENCES
Gunthapally (V) Abdailapurmet (M),
R.R. Dist. Telangana

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24	III YR B.PH 18GN1R0004 BELDHE SWETHA			
25	III YR B.PH	18GN1R0012	DINGARI SREEJA	5000
26	III YR B.PH	18GN1R0031	PANGOLLA BHAVYA REDDY	5000
27	III YR B.PH	18GN1R0033	PINJARI THAHARABHEE	5000
28	III YR B.PH	18GN1R0038	SADIA OMER	3000
29	III YR B.PH	18GN1R0040	SIDRATH UL MUNTAHA QURESHI	3000
30	III YR B.PH	18GN1R0050	GORUGANTHAM SRAVANI	3000
31	III YR B.PH	18GN1R0058	NAKARKANTI KAVYA	3000
32	III YR B.PH	189R1R0060	G GOMATHI	3000
33	III YR B.PH	17GN1R0024	KORI KASHIVISHWANATH	3000
34	IV YR B.PH	17GN1R0036	P RAGHAVENDRA GOUD	5000
35	IV YR B.PH	17GN1R0044	SUMAIYYA MEHREEN	3000
36	IV YR B.PH	17GN1R0052	GOWROJU ROOPA DEVI	3000
37	IV YR B.PH	17GN1R0056	RAMATI JASHWANTH	3000
38	II YR PH.D	19GN1T0001	BALLA SHEETAL	5000
39	II YR PH.D	19GN1T0002	BEESAM SAI MANISHA	5000
40	II YR PH.D	19GN1T0010	MUDAVATH VARSHIKA	5000
41	II YR PH.D	19GN1T0011	MYAKALA SAKETH REDDY	3000
42	II YR PH.D	19GN1T0013	P BRAHMACHARY	3000
43	II YR PH.D	19GN1T0016	SANIA MAHEEN	3000
44	II YR PH.D	19GN1T0018	CHITRAPU SRI SATYA DURGA	3000
45	II YR PH.D	19GN1T0022	ADDAGATLA ANUPAMA	3000
46	II YR PH.D	19GN1T0024	BOLLAREDDY DEVENDRA REDDY	3000
47	II YR PH.D	18GN1T0004	AKULA SINDHUJA	3000
48	II YR PH.D	18GN1T0010	YELKUR MEGHANA	3000
49	III YR PH.D	18GN1T0012	MALLETHULA SHIRISHA	5000
50	III YR PH.D	18GN1T0019	KASARAMONI SWETHA	5000
51	III YR PH.D	18GN1T0020	JANNU UMESH KUMAR	3000
52	III YR PH.D	18GN1T0023	JUMMALA YOGITHA	3000
53	III YR PH.D	18GN1T0025	V SAI PRASANNA	5000
54	IV YR PH.D	17GN1T0014	POSHALA BINDHU	5000
55	IV YR PH.D	17GN1T0015	KANCHARLA ASHISH KUMAR	5000

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> PRINCIPAL TITUTE OF AVANTH SCIENCES PHARMAGE Gunthapally (V), Abduilapurmet (M).

R.R. Dist. Telangana.









56	IV YR PH.D	17GN1T0022	CHANDAN KUMAR SAH	5000
57	IV YR PH.D	17GN1T0024	GANGAPURAM SAI PRAGNA	3000
58	IV YR PH.D	17GN1T0018	CHENNAVENI MEGHANA	5000
59	V YR PH.D	16GN1T0012	MARTHI SWATHI	5000
60	V YR PH.D	16GN1T0013	TARALA KAVYA	3000
61	V YR PH.D	16GN1T0017	E SAI KRISHNA REDDY	5000
62	V YR PH.D	16GN1T0020	S KUSHAL	5000
63	V YR PH.D	16GN1T0015	AFSHA BEGUM	5000
64	VI YR PH.D	15GN1T0019	ANISH KUMAR DAS(S)	5000
65	VI YR PH.D	15GN1T0025	K VAISHNAVI	5000
66	VI YR PH.D	15GN1T0027	N HEERANMAI	5000
67	I YR M.PH(P.CEU)	20GN1S0301	CH YASHWANTH KUMAR	5000
68	I YR M.PH(P.CEU)	20GN1S0302	G.RAKESH	5000
69	I YR M.PH(P.CEU)	20GN1S0303	KOMAL YADAV	5000
70	I YR M.PH(P.CEU)	20GN1S0306	Y SUDHEER KUMAR	5000
71	I YR M.PH(P.A)	20GN1S1201	ANGADI NAGESH	5000
72	I YR M.PH(P.A)	20GN1S1202	BADKA ASHWINI	5000
73	I YR M.PH(P.A)	20GN1S1203	B BHARATH KUMAR	5000
74	I YR M.PH(P.A)	20GN1S1211	KUYA MANI KUMAR	5000
75	II YR M.PH(P.CEU)	19GN1S0310	K KIRANMAI	5000
76	II YR M.PH(P.CEU)	19GN1S0302	C BALAKRISHNA	5000
77	II YR M.PH(P.A)	19GN1S1204	KANCHARLA SINDHUJA	5000
78	II YR M.PH(P.A)	19GN1S1211	AMPILI DHANA SEKHAR	5000

Total students: 78 **Total Amount: Rs 3,27,000** 

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Committed to

Gunthapally (V), Abdunapurin R.R. Dist. Telangana.













Gunthapally,

Date: 22-03-2021.

To

The Governing Body (GB),
Avanthi Institute of Pharmaceutical Sciences,
Gunthapally.

Sub: Letter of request sanction of Merit Scholarship amount from college budget.

Reference: 1. Avanthi Freeship and Merit Scholarship Policy.

2. College Academy Committee meeting held on 17/03/21

Dear Sir/Madam,

This is to request you please sanction amount of Rs. 80,000 (Eighty thousand Rupees) for 20 students into the college budget for the academic year 2020-21.

The details are also enclosed for your consideration

Thanking you sir

Yours faithfully,



PRINCIPAL

VANTH! INSTITUTE OF

PHARMACEUTICAL SCIENCES

PHARMACEUTICAL SCIENCES

(M) Academia purmet (M)

R.R. Dist. Telengana









Gunthapally (V), Abdullapurmet (M), R.R. Dist., Near Ramoji Filmcity, Hyderabad - 501 512.

### Merit Scholarship Students List with Amount

Academic Year: 2020-2021

The following is the list of students 20 are selected from Avanthi Freeship Policy. As per the merit, the academic toppers are selected and given prizes, with the first topper awarded as Rs. 5000 and the second topper as Rs. 3000.

S.NO	COURSE	YEAR	HALL TICKET NO	NAME OF THE STUDENT	MERIT	AMOUNT
1	B PHARM	II	19GN1R0013	D.AAKARSHA	I	5000
2	B PHARM	П	19GN1R0029	k.GAYATHRI	II	3000
3	B PHARM	III	18GN1R0072	G.SRAVANI	I	5000
4	B PHARM	Ш	18GN1R0063	R.SAI KIRAN GOUD	П	3000
5	B PHARM	IV	17GN1R0044	S.MEHREEN	I	5000
6	B PHARM	IV	17GN1R0038	P.PRIYANKA	II	3000
7	PHARM D	II	19GN1T0002	B.SAI MANISHA	I	5000
8	PHARM D	П	19GN1T0014	P.SADGUNA	II	3000
9	PHARM D	III	18GN1T0001	A.ANUSHA	I	5000
10	PHARM D	III	18GN1T0018	J.SUSHMA SWARAJ	II	3000
11	PHARM D	IV	17GN1T0024	G.SAI PRAGNA	I	5000
12	PHARM D	IV	17GN1T0014	P.BINDHU	II	3000
13	PHARM D	V	16GN1T0030	K.GOUTHAMI	I	5000
14	PHARM D	V	16GN1T0003	A.CHANDANA	II	3000
15	PHARM D	VI	15GN1T0009	K.ARUN KUMAR	I	5000
16	PHARM D	VI	15GN1T0012	K.SRUTHI	II	3000
17	M P CEUTICS	II	19GN1S0304	K.SINDHU	I	5000
18	M P CEUTICS	II	19GN1S0310	K.KIRANMAI	II	3000
19	M P ANALYSIS	II	19GN1S1204	K.SINDHUJA	I	5000
20	M P ANALYSIS	II	19GN1S1209	V.RAMKUMAR	II	3000

**Total students: 20** 

MAMINIAGE

Total Amount: Rs 80,000

Education iodullapurmet (M). \*48 DULLA

Bunthapally (V), A R.R. Dist. Telangana To.

The principal six.

Avanthi institute of pharmaceutical sciences.

Cunthapally.

Resperted Six.

Slub: Ragarding lee concession.

I am k. swetha from phormab.

Tuyr HT. No: 18 GN 170019, I am weiting this letter to inform you that to reduce my bus fee due to that I'm travelling a very loss destances in bus unexpectedly Im living heaver to the college, 80 I tindly requesting to

reduce my bus free (5000)

Thanking you Sir

your's faithfully K. Swether 184NIT0019.

Signature

TO

The poincipal 318
Avanthi institute of phasmaceutical sciences
Grunthapally

Respected Six

sub'; Regusaling fee concession

I am J. Yogatha from pharm-D II year HT-NO; 186110110023. I am writing this letter to inform you that I am a single parcent child. So I'm unable to pay full fee. I'm requesting you to reliet some fee from full fee (3000)

Thanking you six

Partition of

Yours obidently J. yogitha 1861110023

> yogitha. signature

22/01/24 Gunthapally,

The poincipal sion, Avanthi Institute of phaomaceutical Sciences. Gunthapally.

Respected Sion,

Sub: Regarding Lee Concession,

I am. Y. Meghana from II yr pharm D.

HTNO: 18G1NIT0010, Six my parents are daily working labours we can't afford that much of fee. So am requesting you to reduce my fee (3000).

Thanking you sin

Protosed

your's faithfully.

You Meghana

Tyo phorm D

1861NT0010

real

TO

The poincipal six,

Avanthy Institute of pharmaceutical sciences Grunthapally, Abdret.

R.R (dist)

Foom

P. Brahmachary Ind years phasm-D

sub!- Application for fee concession

Respected Sig,

I'm p. Brown acharry from 2nd year Phason-D collage. Dur to financial difficulties focad by my family we are unable to pay the full fee. I request you to kindly consider my application for a full fee concession so that I can continue my studies without any disturbances I will be grateful for your kind consideration (3000)

Thanking you

Yours Sincesty P. Boahmachasy II nd year phasing 19GNIT0013.

P. Bhooma.

20/12/20. Gunthapally.

To,

The Principal Sir.

Avanthi Institute of Pharmaceutical sciences, Gunthapally.

Respected Sir,

Sub: Regarding fee Concession.

I am G. Roopa Devi, IV year of

B. Pharm. HT. NO: 17GNIR0052. Sir, I am from Very poor family & my parents are not well from last few months. So, I can't afford that much of fee. So, please I request youk to understand my conditions 4 reduce the fee (3000)

Thanking you sa,

Durbd

Yours faithfully. G. Roopa Devi IV year B. Pharm 17GNIR0052.

20/12/20, Gunthapally.

To
The principle
Avanthi Institute Of Pharmaceutical sciences
Gunthapally

Respected six,

Eub: Regarding fee concession

I am pavari Indys of B. Pharmacy.

HTNO. 1961/180004. I request to principal six to

reduce some tution fee as iam from poor family.

I can't pay that much fee so please reduce

a little fee (8000)

Thanking you six

yours baithfully.
A Pavani
Mrdyx B. Phonm
196N1R0004

20/12/20 Gronthapally

To The perincipal Six Avanthi Institute of phormacoutical sciences Gronthapally.

Respected six,

Sub! - Regarding for concertion.

& an Gr. Salipragna from phoemo Di year HT. NO:- 176 NIT 0024. Lan writing this letter to Enfan you that I am from poor family. Try family Encome is not Enough to pay the foll fee of the college. so I'm hombly requesting you to meliet some fee (3000) Aproved tranking you sign.

yours faithfully, G. Saipragna BONITOORY pharm-D Wyear

To, The principle city Avanthi institute of phoengoutical science. Crunthapally Respected Sir,

Sub: Regarding fee Concression

I am solkushal from phalmo vyear

HITINO. 16 ENITODZO Jam writing this letter to inform you that I have some financial problem as my father health is not well so I'm unable to pay full fee so please rudeur my collège fire (5000)

Thanking you Sir

yours obedently S. Kushal 16GH1T0020

18/2/21 Gunthapally

10

The principal

Avanthi Institute of pharmaceutical scrences Gunthapally.

Respected six.

sub'- Regarding fee concession.

Iam I kavya from pharm-DDyear. Roll. No:16 GNITOOI3. Iam writting this letter to inform you
that Iam from very poor family, my father in
autodriver my father income is not enough to
pay full fee.

so, I humbly requesting you to reduce the fee

- Thanking you.

APPROVED

Yoursobediently T. Kavya. 169 Wito 013

22 101/21. Hyderabad.

The principal silve of pharmaceutical sciences, Avanthi Institute of pharmaceutical sciences, Cunthapally (vi), Abdullapurmet (M), R.R. (dist).

Subi- Regarding pur concussion.
Respected six,

I'm G. Stavani from Il'd year & pharmany.

This is to inform you that my father is Bus driver, & not getting enough money my father is unable to pay the full pee so I hundly request you to concers fee (3000)

Amond Thanking you

yours pathfully

G. Svavan,

John year B. pharm,

186N 180050

TO

The prancipal.

18/2/21 Hyderabad

Avanta? Institute of pharmaleurium sciences

Crunthapary (v?). Aballia Paimet (m)

Rangareday (dist)

<u>Sub</u> &- Regardleg fee seductig

Respected squ

I'm 3. omez from III'rd year B. Pharm I'm

here to inform you tust. 8 ince my father doing 306

Auso we are not getting enough manay my father &

unable to pay the pay fee (3000) 80. Please humbly

sequesting to relief 80me fee.

Thanking you

Duepland

yawiy fastnfery 80 omes Ilindyear B. Pharm 1801 180038

Dale: 20/12/20 Gunthapalig.

To,

The Principal Sir.

Avantin institute of pharmaceutical sciences.

Gruntona party.

Respected Six.

Sub: Regarding tree concession.

I am K. Kidan mat toom M. phoxen Il year HT NO: 19GN180310. Jam woiting this better to inform you that my tobbes reconstry relibed from his job and also his hearth is not well fam unable to pay tull tree so I'm Kindry requesting you to reduce my tree (5000)

AMoved

thanking you six.

Yours obidentuy. 14. Kirannat 1964130310

Signature

18/02/2021 Gun Lapally,

TO.

The Principal Sir,

Avanthi Institute of pharmaceutical science,

Guntapally, Abdulapur metro (M) R.R. (Dist)

subject := application for fee, reducing,

Respected six,

I. am. G. Gomathi From. B. pharm.

Ill rd year I am writing this Letter for request for a concession on My. Tustion. lee (3000) as. my dather was not keeping well for the last tew months . Therefore, the tamity. Encome has been. Vastly, decreased, and very less, money 95 left For the Expenses of my studies of will be highly. Obliged. . It my. request can be kindly. considered.

Approved Thanking you.

your's. s'incerely, G. Gomadhi 3rd year B. pharm 1899 RIR0060

Samolog Sign

20/12/20.

The principal siv,

Avanthi Prestitute of pharma Coutical Sciences,

Gunthapally (vi), Abdulbapuramet (M),

Ranga reddy (dist).

Sub: Application for fees concession.

Tespected siv,

I'm B. Swetha from m'd year Bephanisan

I'm B. Swetha from m'd year Bephanisan

Writing this letter to you unform that lam a single parent

Child. There is not enough money to spend our

Child. There is not enough money to pay full

family So, there is not enough money to pay the fee.

Jee. (5000). My mother is unable to pay the fee.

So, please, humble requesting to reduce my fee.

Approved Thanking You

Yours faithfully B. Swether Wrdykar. Bephan 18 GNI POODY. TO The Principle Sir 22/1/21,1 Qunthapally.

Avanthi Institute of phanmaceutical sciences.

GunThapally.

Respected Six.

<u>Sub!</u> Regarding Tution Fee concession

I am kama Madhu of I year B. Phanm HNO: 19GNIR0026

J request to you to Reduce my Jution Fee

becouse am single parent child my family

becouse afford that much of fee so

Cannot afford that much of fee so

Please reduce my fee six (3000)

AproJed A

Thanking you six.

yours Faethfully

k. Machee.

II B. Phann.

1961/1120026.

Date: 18/02/20, Gunthapany.

10,

The principal sig Avanthi institute of pharmacerdical. Quothapany.

Respected sig,

Sub! Regarding Fee conseviors

Rans tomal yadam form M. Phagm Ist

Year Hs. No. 2041/180303 from waiting their letter

to convey that my Father is a farmer by

occupation on we known that their year is a

heavy rankan due to their, and crops how been

demaged and we dealn't get propay income.

so Rins tindry rearrieding fry to relief some

Ree by concerns (Tooo)

Approved

Thenking you sty.

yng obrdrendy. Comanyaday 2044/30303

Komel.

Date: 2 18/2/21
Gunthapally

The principal sir Avanthi Institute of pharmaceutical sciences. Gunthapally

Respected sir

Jam Guntuku madhusudhan kumar. from B. pharm II year Guntuku . HT. NO: 19GN1R0983. My parients are working labours. That's why I cant afford that much ob Tution fee. so please sir. reduce my tution fee. 5000]

Thanking you sir

Yours faithfully
G. madhusudhan
II year B. pharm
19 GNIR0083

22/1/21, Gunthapally.

70

The principal str.

Avanthi Institute of pharmaceutical sciences

Gurthapally

Respected sir,

Subi-Regarding fee concession

HT.NO: 19GN 170001 St. am from Pharm. DI year HT.No: 19GN 170001 St. am from very poor family and am a single parent child. I count afford that much of fee. So please, I request you to reduce my fee (5000)

Thanking you str

your's faithfully B. Sheetal I year pharmip 19 GIN 17000)

Date: 22/1/2021.

To

The principal six

Avanthi institute of pheormaceutical sciences

Gunthapally

Respected sir

sub? Regarding fee concession

I year HT. No: 19GN131211. Iam writing this letter to inform you that I am from very Poor family as my father is labour. my family income is very less. I am unable to pay full fee. so I am requesting you to reduce some amount of fee (5000)

Accepted

Thanking you sir,

2/

Your faithfully A. DHANA SEKHAR MGN131211