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

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AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES * ABDULLAPURMET *

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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.

1.For 1ST TOPPER awarded …….. Rs 5000 /-

2.For 2nd TOPPER awarded …….. Rs 3000 /-

The Avanthi Freeships and Merit Scholarships Policy is adapted on this day Dec 4th 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

Total Marks: 100 **Duration:** 180min

Name of the student: _____ **Date:**

Avanthi Freeship No:

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_2O 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): Spinous plants transpire less** ( )

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 the correct explanation of A.

3) A is true, R is false 4) A is false, R is true

9. **Natural anti transpirant in plants is** ( )

1) Auxin 2) Malate 3) Proton 4) ABA

10. **Transpiration plays an indirect role in** ( )

1) Uptake & Transport 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 used as an antitranspirant

2) A fungicide used to increase transpiration

3) A fungicide used as an antitranspirant

4) A growth hormone used as an anti transpirant.

13. **Enzymes that use ATP for their activity is** ( )

1) Kinases 2) Synthetases

3) Transferases 4) Hydrolases

14. **Metallic co-factor in carboxy peptidase is** ( )

1) Fe 2) Mn 3) Zn 4) Mg

15. **Third number in the enzyme nomenclature indicates** ( )

1) Sub-Subclass 2) SubClasses 3) Major Classes 4) Serial number

16. **Protein part in a holo enzyme is** ( )

1) Apoenzyme 2)Simple enzyme

3)Conjugated enzyme 4)Inducive enzyme

17. **The reaction $CO_2 + H_2O \leftrightarrow H_2CO_3$ requires** ( )

1) No enzyme 2)An 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 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** ( )

1) Wind is essential 2) Water potential gradient is essential

3) Light is essential. 4) Protons are essential.

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. 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 ( )

1) 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

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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 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

Column - I		**Column-II**
A)	Haustra	i) Palate
B)	Uvula	ii) Nasopalatine duct
C)	Sacculus rotundus	iii) Pharynx
D)	Jacobson's organ	iv) Colon
		v) Ileum

	A	B	C	B
a.	IV	I	V	II
c.	I	IV	II	V

	A	B	C	D
b.	IV	I	V	III
d.	I	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

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

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 correct statement

a.Deficiency of protein intake causes kwashiorkor

b.Deficiency of fat intake causes marasmus disease

c.Deficiency of magnesium causes seborrheic sterility

d.Deficiency of niacin causes seborrheic dermatitis

38) choose the correct answer

Salivary glands	**Character**
I) Infra-orbital	- Situated below the eye orbit
II) Parotid	- Open through Wharton's duct
III) Sub maxillary	- Open through Stensen's duct
IV) Sub lingual	- Situated below the tongue

a. I and II b. II and III c. III and I d. I and IV

39) Amino acids are the only end products by the action of which of the following enzymes acts on the protein constituents?

a.Aminopeptidase b. Carboxypeptidase c. Tripeptidase d. Dipeptidase

40) The detoxifying organ of the body is

a. Liver b. Pancreas c. Spleen d. Bone marrow

41) In normal conditions, the lower oesophageal sphincter prevents the regurgitataion offood from the

a.Cardiac stomach to pyloric stomach b. Cardiac stomach to fundic stomach

c. Cardiac stomach to oesophagus d. Pyloric stomach to cardiac stomach

42) Formation of glucose in liver from non-carbohydrates is called

a.Glycogenesis b. Gluconeogenesis c. Lipogenesis d. Glycogenolysis

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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

	A	B	C	D		A	B	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

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

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?

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

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

57) A current is flowing due north along a powerline.The direction of the magnetic field above it, neglecting the earth's field is:

(1)North (2)East (3)South (4)West

58). Find the wrong statement among the following

a) Malignant tumors exhibit metastasis

b) Benign tumors are with a fibrous outer capsule

c) Sarcomas are the malignant tumors of secondary lymphoid organs

d) Carcinomas are malignant tumors of the epithelial cells

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 L (2)Directly proportional L

(3)Inversely proportional to L (4)Inversely proportional to L^2

60). when an apparently healthy person is diagnosed as unhealthy by a psychiatrist, the reason could be that:

a. The patient was not efficient at his work

b. The patient was not economically prosperous

c. The patient shows behavioral and social maladjustment

d. He does not take interest in sports

61) When no external force is acting on a system of particles, the centre of mass of the system

1) Remains at rest only 2)Moves with constant velocity only

3) Moves with constant velocity or will be at rest 4) Moves with variable velocity

62) Field at the centre of circular coilo fradiusr,through which a currentI flows is

(1)Directly proportionaltor (2)Inversely proportionaltoI

(3)Directly proportionaltoI (4)Directly proportionaltoI^2

63) Lines of magnetic field around a current carrying straight conductor will be

1) Straight linesparallel to conductor

2) Circular in a plane parallel to conductor

3) Circular in a plane perpendicular to conductor

4)Straight perpendicular to conductor

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 theconductor

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 $B.d\ell$alonga 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 pair of 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. Inclinedat45^0at 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

74) **The electric current in a circular coil of two turns produced a magnetic induction of 0.2T at its centre. The coil is unwound and rewound in to a coil of four turns. The magnetic induction at the centre of the coil now is, in tesla (if the same current flows in the coil)**

1)0.2 2)0.4 3)0.6 4)0.8

75) **In an atom the electron has a time period of 0.16×10^{-15} s in a circular orbit of radius 0.5 A^0.The magnetic induction at the centre of the orbit will be (in tesla)**

1)12.56 2)125.6 3)1.256 4)25.12

76) **Acircular arc of wire subtends an angle$\pi/2$ at the centre. If it carries a current i and its radius of curvature is R then the magnetic field at the centre of the arc is**

1)$\mu_0 i$ 2)$\mu_0 i 2R$ 3)$\mu_0 i$ 4)$\mu_0 i 8R$

77) **The ratio of de Broglie wave lengths of two particles, having mass ratio 1 : 3 and kineticenergy ratio 2 : 1 is**

1)3 : 2
2)$\sqrt{3}$: $\sqrt{2}$
3) $\sqrt{2}$: $\sqrt{3}$
4)2 : 3

78) **In lanthanides, with increase in atomic number atomic radius decreases, except for the element X, what X?**

1)Gd
2)Eu
3)Tm
4)Dy

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**

a.XeF_4, NH_3

b.XeF_2, PF_5

c.BF_3, H_2O

d.CH_4, $BeCl_2$

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^{-1}. The molar mass of X in g mol^{-1} is**

1)16

2)2

3)32

4)28

82) **From the given reaction**

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

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

1)4×10^{-2} N

2)2×10^{-2} N

3)6×10^{-2} N

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

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

$CuSO_4$ NaCN KCl

I II 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_2H_6, the number of BH_2 groups present in one plane, and the numberof B-H bonds, B-B bonds, B-H-B bridge bonds are respectively**

1)2, 0, 3, 2

2)3, 2, 2, 2

3)2, 4, 0, 2

4)2, 4, 2, 0

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

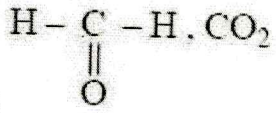
II. Silicon exists as both $[SiF_6]^{2-}$ and $[SiCl_6]^{2-}$ forms

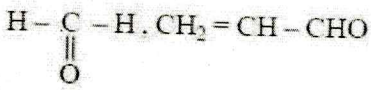
III. The hybridization of carbon in fullerene is sp^3

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) 

2) 

3) CH_2= CH-CHO, C_2H_5CHO

4) CO_2, H_2O

89) Assertion (A): Propene on addition with hydrogen bromide in the presence of peroxide 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 3.5A and 3.0Arespectively. The ratio of density of fcc and bcc phasesapproximately is

1)1.5 : 1.0

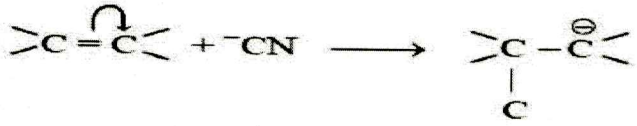
2)1.0 : 1.5

3)1.26 : 1

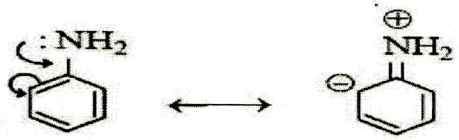
4)1 : 1.26

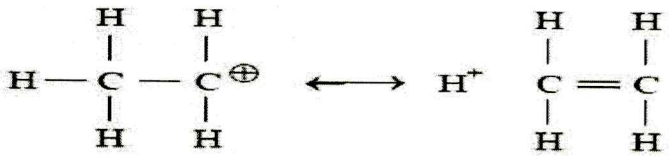
keykkkkgu

91.Which of the following represents the hyperconjugation effect?

1. 

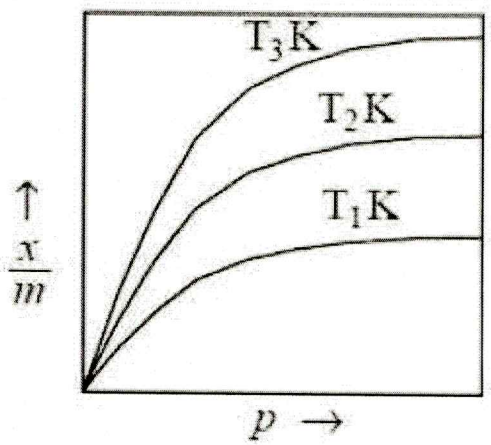
2. $CH_3-CH_2-CH_2 \rightarrow Cl$

3. 

4. 

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)$T_2 < T_1 < T_3$

keykkkgu

93). The ore which is concentrated by leaching

1)PbS

2)Al_2O_3, $2H_2O$

3)SnO_2

4)Fe_2O_3

94) Centre of mass of a body

1)Always lies inside the body 2) Always lies outside 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
3) Horizontally 4) Is at rest

96). Antigen presenting cells are

a) Dendritic cells 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

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

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

86/100

Avanthi InstituteofPharmaceuticSciences,

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

FREESHIP EXAMINATIONTEST

2020-21

Total Marks: 100 **Duration:** 180min

Name of the student: A.Ramakrishna **Date:** 17/11/2020

Avanthi Freeship No: AIPS2020001

1. Maximum transpiration is by (1)

1) Stomata 2) Cuticle 3) Lenticels 4) Cuticle & Lenticels

2. Scotoactive stomata (2)

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 (3)

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

4. Source of protons during stomatal opening is (2)

1) Water 2) Sugars 3) Light 4) Malate

5. During opening of stomata, into the guard cells (3)

I: Entry of K+ is active II: Entry of Cl is active

III: Export of H+ is active IV: Entry of H_2O is active

Correct statements are

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

6. Transpiration can be demonstrated by (2)

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 transpire less** (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 the correct explanation of A.

3) A is true, R is false 4) A is false, R is true

9. **Natural anti transpirant in plants is** (4)

1) Auxin 2) Malate 3) Proton 4) ABA

10. **Transpiration plays an indirect role in** (3)

1) Uptake & Transport of minerals 2) Absorption of water

3) Translocation of solutes 4) Distribution of water

11. **Transpiration is a 'necessary evil '- stated by** (4)

1) Slatyer 2) Arnon 3) Knop 4) Curtis

12. **Phenyl mercuric acetate (PMA) is** (3)

1) An antibiotic used as an antitranspirant

2) A fungicide used to increase transpiration

3) A fungicide used as an antitranspirant

4) A growth hormone used as an anti transpirant.

13. **Enzymes that use ATP for their activity is** (2)

1) Kinases 2) Synthetases

3) Transferases 4) Hydrolases

14. **Metallic co-factor in carboxy peptidase is** (4)

1)Fe 2)Mn 3) Zn 4)Mg

15. **Third number in the enzyme nomenclature indicates** (1)

1)Sub-Subclass 2)SubClasses 3)Major Classes 4)Serial number

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16. **Protein part in a holo enzyme is** (1)

1) Apoenzyme 2)Simple enzyme

3)Conjugated enzyme 4)Inducive enzyme

17. **The reaction CO_2+ H_2O ↔ H_2CO_3 requires** (1)

1) No enzyme 2)An enzyme

3)Very high temperatures 4)Very low temperatures

18. **. Immunity that protects against intracellular bacteria, virus & cancer cells is** (4)

a) Innate immunity b) Humoral immunity

c) Non-specific immunity d) Cell mediated immunity

19. **Stomatal Index is** (4)

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)

1) Soil into Xylem 2) Xylem into leaves

3) Xylem into atmosphere 4) Leaves into atmosphere

21. **Guttation is** (1)

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)

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)

1) Wind is essential 2) Water potential gradient is essential

3) Light is essential. 4) Protons are essential.

24. True statement regarding environmental factors is (3✓)

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✓)

1. Ion transfer 2.Transpiration

3. Photosynthesis 4.Hydrogen bond formation

26. Transpiration rate is inversely proportional to (4✓)

1)Temperature 2) Light 3) Gentle breeze 4) High wind speeds

27 . Stomatal opening and closing depends on (4✓)

1)pH changes 2) Guard cell size

3) Size of stomatal chamber 4) Solute concentration of guard cells

28 .During stomatal closing (1✓)

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✓)

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✓)

1)Photoactive 2) Scotoactive

3)Amphiactive 4) Hypoactive

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31)Rate of the transpiration from the upper surface and lower surface of the leaf can be known by (2 L)

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 Enters the stomach (1 L)

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 (6 L)

Column - I		**Column-II**
A)	Haustra	i) Palate
B)	Uvula	ii) Nasopalatine duct
C)	Sacculus rotundus	iii) Pharynx
D)	Jacobson's organ	iv) Colon
		v) Ileum

	A	B	C	B
a.	IV	I	V	II
c.	I	IV	II	V

	A	B	C	D
b.	IV	I	V	III
d.	I	IV	III	V

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

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 (C L)

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

36). The cells that are not found in the gastric gland of rabbit are (d)

a.Oxyntic cells b. Zymogen cells c. Parietal cells d. Kupffer cells

37) Choose the correct statement (a)

a.Deficiency of protein intake causes kwashiorkor

b.Deficiency of fat intake causes marasmus disease

c.Deficiency of magnesium causes seborrheic sterility

d.Deficiency of niacin causes seborrheic dermatitis

38) choose the correct answer (d)

Salivary glands	**Character**
I) Infra-orbital	- Situated below the eye orbit
II) Parotid	- Open through Wharton's duct
III) Sub maxillary	- Open through Stensen's duct
IV) Sub lingual	- Situated below the tongue

a. I and II b. II and III c. III and I d. I and IV

39) Amino acids are the only end products by the action of which of the following enzymes acts on the protein constituents? (c)

a.Aminopeptidase b. Carboxypeptidase c. Tripeptidase d. Dipeptidase

40) The detoxifying organ of the body is (a)

a. Liver b. Pancreas c. Spleen d. Bone marrow

41) In normal conditions, the lower oesophageal sphincter prevents the regurgitataion offood from the (a)

a.Cardiac stomach to pyloric stomach b. Cardiac stomach to fundic stomach

c. Cardiac stomach to oesophagus d. Pyloric stomach to cardiac stomach

42) Formation of glucose in liver from non-carbohydrates is called (d)

a.Glycogenesis b. Gluconeogenesis c. Lipogenesis 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

	A	B	C	D		A	B	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

48) Proteolytic enzymes which act in acidic medium are (c)

a.Chymotrypsin, rennin b. Pepsin, Rennin

c. Pepsinogen,Trypsinogen d. Pepsin, Trypsin

49) Correct statement from the following is (c)

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 (d)

a.Parotid & sub maxillary b. Parotid & sublingual

c. Sub maxillary & sublingual d. Sublingual & Infra orbital

51) Dietetics' is related to the study of (d)

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)

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)

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 (b)

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:** (d)

a. ELISA-Test b. ESR – Test c. PCR – Test d. Widal-Test

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57) A current is flowing due north along a powerline.The direction of the magnetic field above it, neglecting the earth's field is: (1)

(1)North (2)East (3)South (4)West

58). Find the wrong statement among the following (c)

a) Malignant tumors exhibit metastasis

b) Benign tumors are with a fibrous outer capsule

c) Sarcomas are the malignant tumors of secondary lymphoid organs

d) Carcinomas are malignant tumors of the epithelial cells

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 (3)

(1)Independent of L (2)Directly proportional L

(3)Inversely proportional to L (4)Inversely proportional to L^2

60). when an apparently healthy person is diagnosed as unhealthy by a psychiatrist, the reason could be that: (c)

a. The patient was not efficient at his work

b. The patient was not economically prosperous

c. The patient shows behavioral and social maladjustment

d. He does not take interest in sports

61) When no external force is acting on a system of particles, the centre of mass of the system (3)

1) Remains at rest only 2)Moves with constant velocity only

3) Moves with constant velocity or will be at rest 4) Moves with variable velocity

62) Field at the centre of circular coilo fradiusr,through which a currentI flows is (3)

(1)Directly proportionaltor (2)Inversely proportionaltoI

(3)Directly proportionaltoI (4)Directly proportionaltoI^2

63) Lines of magnetic field around a current carrying straight conductor will be (3)

1) Straight linesparallel to conductor

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 theconductor

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 $B.d\ell$ alonga 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 pair of viral diseases? (3)

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? (2)

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: (2)

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. Inclinedat45^0at 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: (4)

1)nB 2)n^2B 3)2nB 4)$2n^2B$

73)The magnetic field at the centre of the current carrying coilis (1)

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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74) The electric current in a circular coil of two turns produced a magnetic induction of 0.2T at its centre. The coil is unwound and rewound in to a coil of four turns. The magnetic induction at the centre of the coil now is, in tesla (if the same current flows in the coil)

1)0.2 2)0.4 3)0.6 4)0.8

75) In an atom the electron has a time period of 0.16×10^{-15} s in a circular orbit of radius 0.5 A^0.The magnetic induction at the centre of the orbit will be (in tesla)

1)12.56 2)125.6 3)1.256 4)25.12

76) Acircular arc of wire subtends an angle$\pi/2$ at the centre. If it carries a current i and its radius of curvature is R then the magnetic field at the centre of the arc is

1)$\mu_0 i$ 2)$\mu_0 i2R$ 3)$\mu_0 i$ 4)$\mu_0 i8R$

77) The ratio of de Broglie wave lengths of two particles, having mass ratio 1 : 3 and kineticenergy ratio 2 : 1 is

1)3 : 2

2)$\sqrt{3} : \sqrt{2}$

3) $\sqrt{2} : \sqrt{3}$

4)2 : 3

78) In lanthanides, with increase in atomic number atomic radius decreases, except for the element X, what X?

1)Gd

2)Eu

3)Tm

4)Dy

79) **Dipole moment order of which of the following pairs of molecules is not correct?** (2)

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** (4)

a.XeF_4, NH_3

b.XeF_2, PF_5

c.BF_3, H_2O

d.CH_4, $BeCl_2$

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^{-1}. The molar mass of X in g mol^{-1} is** (2)

1)16

2)2

3)32

4)28

82) **From the given reaction** (2)

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

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

1)4×10^{-2} N

2)2×10^{-2} N

3)6×10^{-2} N

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

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

$CuSO_4$ NaCN KCl

I II 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_2H_6, the number of BH_2 groups present in one plane, and the numberof B-H bonds, B-B bonds, B-H-B bridge bonds are respectively**

1)2, 0, 3, 2

2)3, 2, 2, 2

3)2, 4, 0, 2

4)2, 4, 2, 0

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

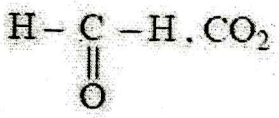
II. Silicon exists as both $[SiF_6]^{2-}$ and $[SiCl_6]^{2-}$ forms

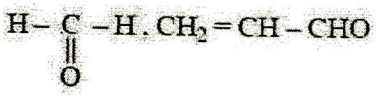
III. The hybridization of carbon in fullerene is sp^3

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) 

2) 

3) $CH_2 = CH\text{-}CHO$, C_2H_5CHO

4) CO_2, H_2O

89) Assertion (A): Propene on addition with hydrogen bromide in the presence of peroxide 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 3.5A and 3.0Arespectively. The ratio of density of fcc and bcc phasesapproximately is

1)1.5 : 1.0

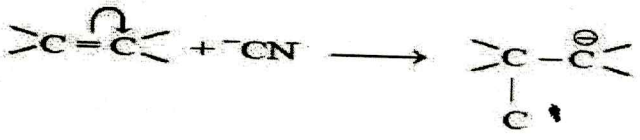
2)1.0 : 1.5

3)1.26 : 1

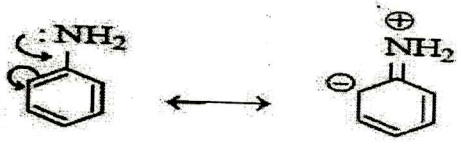
4)1 : 1.26

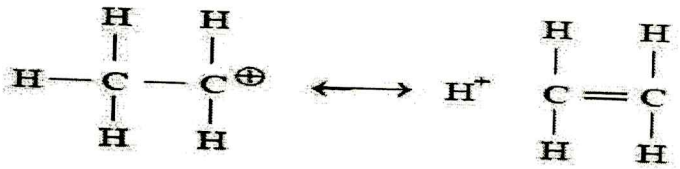
keykkkkgu

91.Which of the following represents the hyperconjugation effect? (4)

1. 

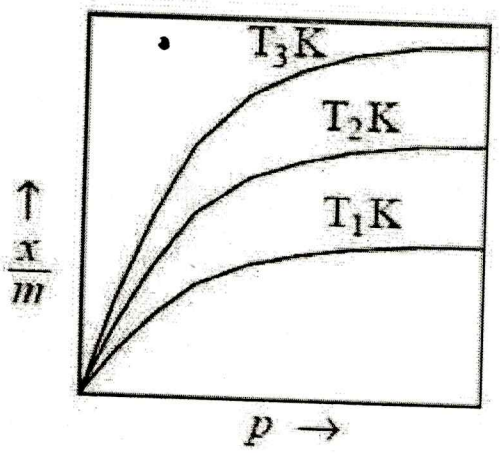
2. $CH_3-CH_2-CH_2 \rightarrow Cl$

3. 

4. 

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 (3)



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

keykkkgu

93). The ore which is concentrated by leaching

1)PbS

2)Al_2O_3, $2H_2O$

3)SnO_2

4)Fe_2O_3

94) Centre of mass of a body

1)Always lies inside the body
2) Always lies outside 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
3) Horizontally
4) Is at rest

96). Antigen presenting cells are

a) Dendritic cells
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

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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70/100

Avanthi InstituteofPharmaceuticSciences,

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

FREESHIP EXAMINATIONTEST

2020-21

Total Marks: 100 **Duration:** 180min

Name of the student: D. Swapna **Date:** 4/12/2020

Avanthi Freeship No: ATPS2020011

1. Maximum transpiration is by (1)

1) Stomata 2) Cuticle 3) Lenticels 4) Cuticle & Lenticels

2. Scotoactive stomata (2)

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 (3)

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

4. Source of protons during stomatal opening is (4)

1) Water 2) Sugars 3) Light 4) Malate

5. During opening of stomata, into the guard cells (3)

I: Entry of K+ is active II: Entry of Cl is active

III: Export of H+ is active IV: Entry of H_2O is active

Correct statements are

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

6. Transpiration can be demonstrated by (2)

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 transpire less** (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 the correct explanation of A.

3) A is true, R is false 4) A is false, R is true

9. **Natural anti transpirant in plants is** (4)

1) Auxin 2) Malate 3) Proton 4) ABA

10. **Transpiration plays an indirect role in** (3)

1) Uptake & Transport of minerals 2) Absorption of water

3) Translocation of solutes 4) Distribution of water

11. **Transpiration is a 'necessary evil '- stated by** (4)

1) Slatyer 2) Arnon 3) Knop 4) Curtis

12. **Phenyl mercuric acetate (PMA) is** (3)

1) An antibiotic used as an antitranspirant

2) A fungicide used to increase transpiration

3) A fungicide used as an antitranspirant

4) A growth hormone used as an anti transpirant.

13. **Enzymes that use ATP for their activity is** (3)

1) Kinases 2) Synthetases

3) Transferases 4) Hydrolases

14. **Metallic co-factor in carboxy peptidase is** (2)

1) Fe 2) Mn 3) Zn 4) Mg

15. **Third number in the enzyme nomenclature indicates** (3)

1) Sub-Subclass 2) SubClasses 3) Major Classes 4) Serial number

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16. **Protein part in a holo enzyme is** (1)

1) Apoenzyme 2)Simple enzyme

3)Conjugated enzyme 4)Inducive enzyme

17. **The reaction $CO_2 + H_2O \leftrightarrow H_2CO_3$ requires** (1)

1) No enzyme 2)An enzyme

3)Very high temperatures 4)Very low temperatures

18. **. Immunity that protects against intracellular bacteria, virus & cancer cells is** (3)

a) Innate immunity b) Humoral immunity

c) Non-specific immunity d) Cell mediated immunity

19. **Stomatal Index is** (2)

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)

1) Soil into Xylem 2) Xylem into leaves

3) Xylem into atmosphere 4) Leaves into atmosphere

21. **Guttation is** (1)

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)

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)

1) Wind is essential 2) Water potential gradient is essential

3) Light is essential. 4) Protons are essential.

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24. True statement regarding environmental factors is (2)

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 (3)

1. Ion transfer 2.Transpiration

3. Photosynthesis 4.Hydrogen bond formation

26. Transpiration rate is inversely proportional to (4)

1)Temperature 2) Light 3) Gentle breeze 4) High wind speeds

27 . Stomatal opening and closing depends on (2)

1)pH changes 2) Guard cell size

3) Size of stomatal chamber 4) Solute concentration of guard cells

28 .During stomatal closing (1)

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)

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)

1)Photoactive 2) Scotoactive

3)Amphiactive 4) Hypoactive

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31)Rate of the transpiration from the upper surface and lower surface of the leaf can be known by (2)

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 Enters the stomach [1]

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 [B]

Column - I		**Column-II**
A)	Haustra	i) Palate
B)	Uvula	ii) Nasopalatine duct
C)	Sacculus rotundus	iii) Pharynx
D)	Jacobson's organ	iv) Colon
		v) Ileum

	A	B	C	B		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 papillae arranged in semicircle at the base of tongue are [C]

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 [C]

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

36). The cells that are not found in the gastric gland of rabbit are (D)

a.Oxyntic cells b. Zymogen cells c. Parietal cells d. Kupffer cells

37) Choose the correct statement (A)

a.Deficiency of protein intake causes kwashiorkor

b.Deficiency of fat intake causes marasmus disease

c.Deficiency of magnesium causes seborrheic sterility

d.Deficiency of niacin causes seborrheic dermatitis

38) choose the correct answer (D)

Salivary glands	**Character**
I) Infra-orbital	- Situated below the eye orbit
II) Parotid	- Open through Wharton's duct
III) Sub maxillary	- Open through Stensen's duct
IV) Sub lingual	- Situated below the tongue

a. I and II b. II and III c. III and I d. I and IV

39) Amino acids are the only end products by the action of which of the following enzymes acts on the protein constituents? (C)

a.Aminopeptidase b. Carboxypeptidase c. Tripeptidase d. Dipeptidase

40) The detoxifying organ of the body is (D)

a. Liver b. Pancreas c. Spleen d. Bone marrow

41) In normal conditions, the lower oesophageal sphincter prevents the regurgitataion offood from the (D)

a.Cardiac stomach to pyloric stomach b. Cardiac stomach to fundic stomach

c. Cardiac stomach to oesophagus d. Pyloric stomach to cardiac stomach

42) Formation of glucose in liver from non-carbohydrates is called (D)

a.Glycogenesis b. Gluconeogenesis c. Lipogenesis d. Glycogenolysis

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43) **Match the followings** (D)

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

	A	B	C	D		A	B	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** (B)

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?** (B)

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)

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** (D)

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

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48) Proteolytic enzymes which act in acidic medium are (C)

a.Chymotrypsin, rennin b. Pepsin, Rennin

c. Pepsinogen,Trypsinogen d. Pepsin, Trypsin

49) Correct statement from the following is (C)

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 (D)

a.Parotid & sub maxillary b. Parotid & sublingual

c. Sub maxillary & sublingual d. Sublingual & Infra orbital

51) Dietetics' is related to the study of (D)

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 (D)

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)

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 (B)

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:** (D)

a. ELISA-Test b. ESR – Test c. PCR – Test d. Widal-Test

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57) A current is flowing due north along a powerline.The direction of the magnetic field above it, neglecting the earth's field is: (A)

(1)North (2)East (3)South (4)West

58). Find the wrong statement among the following (B)

a) Malignant tumors exhibit metastasis

b) Benign tumors are with a fibrous outer capsule

c) Sarcomas are the malignant tumors of secondary lymphoid organs

d) Carcinomas are malignant tumors of the epithelial cells

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 (C)

(1)Independent of L (2)Directly proportional L

(3)Inversely proportional to L (4)Inversely proportional to L^2

60). when an apparently healthy person is diagnosed as unhealthy by a psychiatrist, the reason could be that: (D)

a. The patient was not efficient at his work

b. The patient was not economically prosperous

c. The patient shows behavioral and social maladjustment

d. He does not take interest in sports

61) When no external force is acting on a system of particles, the centre of mass of the system (C)

1) Remains at rest only 2)Moves with constant velocity only

3) Moves with constant velocity or will be at rest 4) Moves with variable velocity

62) Field at the centre of circular coilo fradiusr,through which a currentI flows is (C)

(1)Directly proportionaltor (2)Inversely proportionaltoI

(3)Directly proportionaltoI (4)Directly proportionaltoI^2

63) Lines of magnetic field around a current carrying straight conductor will be (C)

1) Straight linesparallel to conductor

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)

1) Inversely proportional tothesquare of the distance of the point fromt the conductor

2) Inversely proportional to the distance of the poin tform theconductor

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

66) Statement A: current is scalar. (3)

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 $B.d\ell$ **alonga 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. (2)

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 (1)

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 pair of viral diseases? (1) 2

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? (2)

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: (3) 2

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. Inclinedat45^0at 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: (2)

1)nB 2)n^2B 3)2nB 4)$2n^2B$

73)The magnetic field at the centre of the current carrying coilis (1)

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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74) **The electric current in a circular coil of two turns produced a magnetic induction of 0.2T at its centre. The coil is unwound and rewound in to a coil of four turns. The magnetic induction at the centre of the coil now is, in tesla (if the same current flows in the coil)** (4)

1)0.2 2)0.4 3)0.6 4)0.8

75) **In an atom the electron has a time period of 0.16×10^{-15} s in a circular orbit of radius 0.5 A^0.The magnetic induction at the centre of the orbit will be (in tesla)** (3)

1)12.56 2)125.6 3)1.256 4)25.12

76) **Acircular arc of wire subtends an angle$\pi/2$ at the centre. If it carries a current i and its radius of curvature is R then the magnetic field at the centre of the arc is** (4)

1)$\mu_0 i$ 2)$\mu_0 i 2R$ 3)$\mu_0 i$ 4)$\mu_0 i 8R$

77) **The ratio of de Broglie wave lengths of two particles, having mass ratio 1 : 3 and kineticenergy ratio 2 : 1 is** (2)

1)3 : 2

2)$\sqrt{3} : \sqrt{2}$

3) $\sqrt{2} : \sqrt{3}$

4)2 : 3

78) **In lanthanides, with increase in atomic number atomic radius decreases, except for the element X, what X?** (2)

1)Gd

2)Eu

3)Tm

4)Dy

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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**

a.XeF_4, NH_3

b.XeF_2, PF_5

c.BF_3, H_2O

d.CH_4, $BeCl_2$

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^{-1}. The molar mass of X in g mol^{-1} is**

1)16

2)2

3)32

4)28

82) **From the given reaction**

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

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

1)4×10^{-2} N

2)2×10^{-2} N

3)6×10^{-2} N

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

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

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**

$CuSO_4$ NaCN KCl (2)

I II 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?** (3)

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_2H_6, the number of BH_2 groups present in one plane, and the numberof B-H bonds, B-B bonds, B-H-B bridge bonds are respectively** (3)

1)2, 0, 3, 2

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 (3)

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

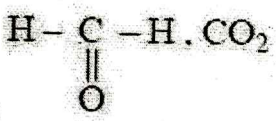
II. Silicon exists as both $[SiF_6]^{2-}$ and $[SiCl_6]^{2-}$ forms

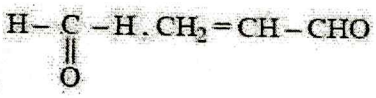
III. The hybridization of carbon in fullerene is sp^3

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 (2)

1) 

2) 

3) $CH_2 = CH\text{-}CHO$, C_2H_5CHO

4) CO_2, H_2O

89) Assertion (A): Propene on addition with hydrogen bromide in the presence of peroxide gives1-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 3.5A and 3.0Arespectively. 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)

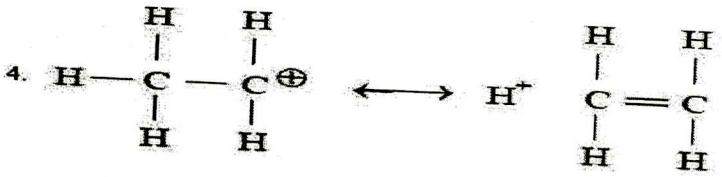
keykkkkgu

91.Which of the following represents the hyperconjugation effect? (4)

1. 

2. 

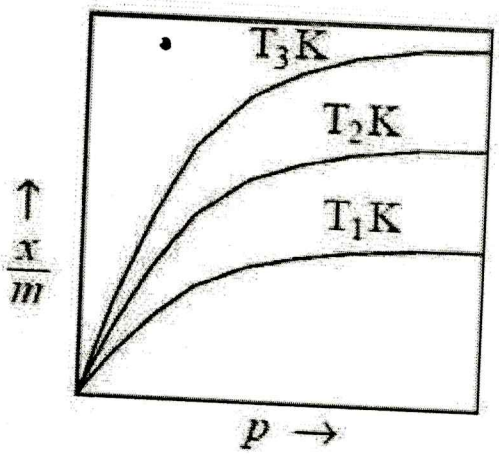
3. 

4. 

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

(4)



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

keykkkgu

93). The ore which is concentrated by leaching (4)

1)PbS

2)Al_2O_3, $2H_2O$

3)SnO_2

4)Fe_2O_3

94) Centre of mass of a body (4)

1)Always lies inside the body 2) Always lies outside 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 (4)

1) Describes a parabola 2) Vertically upwards
3) Horizontally 4) Is at rest

96). Antigen presenting cells are (4)

a) Dendritic cells 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 (4)

1)SO_2 2)O_3 3)NO_2 4)NO

98). Gamma interferons are produced by (2)

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 (4)

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

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FREESHIP EXAMINATIONTEST

2020-21

79/100

Total Marks: 100 **Duration:** 180min

Name of the student: P. Harshini **Date:** 17/11/2020

Avanthi Freeship No: AIPS2020095

1. **Maximum transpiration is by** (1)

   1) Stomata 2) Cuticle 3) Lenticels 4) Cuticle & Lenticels

2. **Scotoactive stomata** (2)

   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** (2)

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

4. **Source of protons during stomatal opening is** (4)

   1) Water 2) Sugars 3) Light 4) Malate

5. **During opening of stomata, into the guard cells** (3)

   I: Entry of K+ is active II: Entry of Cl is active

   III: Export of H+ is active IV: Entry of H_2O is active

   Correct statements are

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

6. **Transpiration can be demonstrated by** (2)

   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 transpire less** (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 the correct explanation of A.

3) A is true, R is false 4) A is false, R is true

9. **Natural anti transpirant in plants is** (4)

1) Auxin 2) Malate 3) Proton 4) ABA

10. **Transpiration plays an indirect role in** (3)

1) Uptake & Transport of minerals 2) Absorption of water

3) Translocation of solutes 4) Distribution of water

11. **Transpiration is a 'necessary evil '- stated by** (4)

1) Slatyer 2) Arnon 3) Knop 4) Curtis

12. **Phenyl mercuric acetate (PMA) is** (3)

1) An antibiotic used as an antitranspirant

2) A fungicide used to increase transpiration

3) A fungicide used as an antitranspirant

4) A growth hormone used as an anti transpirant.

13. **Enzymes that use ATP for their activity is** (2)

1) Kinases 2) Synthetases

3) Transferases 4) Hydrolases

14. **Metallic co-factor in carboxy peptidase is** (3)

1)Fe 2)Mn 3) Zn 4)Mg

15. **Third number in the enzyme nomenclature indicates** (2)

1)Sub-Subclass 2)SubClasses 3)Major Classes 4)Serial number

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16. **Protein part in a holo enzyme is** (1)

1) Apoenzyme 2)Simple enzyme

3)Conjugated enzyme 4)Inducive enzyme

17. **The reaction $CO_2 + H_2O \leftrightarrow H_2CO_3$ requires** (1)

1) No enzyme 2)An enzyme

3)Very high temperatures 4)Very low temperatures

18. **. Immunity that protects against intracellular bacteria, virus & cancer cells is** (3)

a) Innate immunity b) Humoral immunity

c) Non-specific immunity d) Cell mediated immunity

19. **Stomatal Index is** (2)

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)

1) Soil into Xylem 2) Xylem into leaves

3) Xylem into atmosphere 4) Leaves into atmosphere

21. **Guttation is** (1)

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)

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** (1)

1) Wind is essential 2) Water potential gradient is essential

3) Light is essential. 4) Protons are essential.

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24. True statement regarding environmental factors is (3)

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 (2)

1. Ion transfer 2.Transpiration

3. Photosynthesis 4.Hydrogen bond formation

26. Transpiration rate is inversely proportional to (4)

1)Temperature 2) Light 3) Gentle breeze 4) High wind speeds

27 . Stomatal opening and closing depends on (4)

1)pH changes 2) Guard cell size

3) Size of stomatal chamber 4) Solute concentration of guard cells

28 .During stomatal closing (1)

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)

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)

1)Photoactive 2) Scotoactive

3)Amphiactive 4) Hypoactive

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31)Rate of the transpiration from the upper surface and lower surface of the leaf can be known by (2)

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 Enters the stomach

Reason (R): Salivary amylase is inactivated at the low pH of gastric juice (1)

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 (C)

Column - I		**Column-II**
A)	Haustra	i) Palate
B)	Uvula	ii) Nasopalatine duct
C)	Sacculus rotundus	iii) Pharynx
D)	Jacobson's organ	iv) Colon
		v) Ileum

	A	B	C	B
a.	IV	I	V	II
c.	I	IV	II	V

	A	B	C	D
b.	IV	I	V	III
d.	I	IV	III	V

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

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 (C)

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

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 correct statement

a.Deficiency of protein intake causes kwashiorkor

b.Deficiency of fat intake causes marasmus disease

c.Deficiency of magnesium causes seborrheic sterility

d.Deficiency of niacin causes seborrheic dermatitis

38) choose the correct answer

Salivary glands	**Character**
I) Infra-orbital	- Situated below the eye orbit
II) Parotid	- Open through Wharton's duct
III) Sub maxillary	- Open through Stensen's duct
IV) Sub lingual	- Situated below the tongue

a. I and II b. II and III c. III and I d. I and IV

39) Amino acids are the only end products by the action of which of the following enzymes acts on the protein constituents?

a.Aminopeptidase b. Carboxypeptidase c. Tripeptidase d. Dipeptidase

40) The detoxifying organ of the body is

a. Liver b. Pancreas c. Spleen d. Bone marrow

41) In normal conditions, the lower oesophageal sphincter prevents the regurgitataion offood from the

a.Cardiac stomach to pyloric stomach b. Cardiac stomach to fundic stomach

c. Cardiac stomach to oesophagus d. Pyloric stomach to cardiac stomach

42) Formation of glucose in liver from non-carbohydrates is called

a.Glycogenesis b. Gluconeogenesis c. Lipogenesis d. Glycogenolysis

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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

	A	B	C	D		A	B	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 which act in acidic medium are

a.Chymotrypsin, rennin b. Pepsin, Rennin

c. Pepsinogen,Trypsinogen d. Pepsin, Trypsin

(3)

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.

(3)

50) Stensen's duct and wharton's duct are associated with the following glands

a.Parotid & sub maxillary b. Parotid & sublingual

c. Sub maxillary & sublingual d. Sublingual & Infra orbital

(c)

51) Dietetics' is related to the study of

a.Nutritional disorders b. Chemical nature of food

c. Food stuff and nutrition d. Minerals & Vitamin

(d)

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

(d)

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

(1)

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

(b)

55). Identify the third line of defense from the following

a) NK cells b) Tears c) T cells d) Phagocytes

(4)

56) **The chemical test that is used for diagnosis of typhoid is:**

a. ELISA-Test b. ESR – Test c. PCR – Test d. Widal-Test

(3)

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57) **A current is flowing due north along a powerline.The direction of the magnetic field above it, neglecting the earth's field is:**

(1)North (2)East (3)South (4)West (1)

58). **Find the wrong statement among the following** (c)

a) Malignant tumors exhibit metastasis

b) Benign tumors are with a fibrous outer capsule

c) Sarcomas are the malignant tumors of secondary lymphoid organs

d) Carcinomas are malignant tumors of the epithelial cells

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** (2)

(1)Independent of L (2)Directly proportional L

(3)Inversely proportional to L (4)Inversely proportional to L^2

60). **when an apparently healthy person is diagnosed as unhealthy by a psychiatrist, the reason could be that:** (3)

a. The patient was not efficient at his work

b. The patient was not economically prosperous

c. The patient shows behavioral and social maladjustment

d. He does not take interest in sports

61) **When no external force is acting on a system of particles, the centre of mass of the system**

1) Remains at rest only 2)Moves with constant velocity only

3) Moves with constant velocity or will be at rest 4) Moves with variable velocity (3)

62) **Field at the centre of circular coilo fradiusr,through which a currentI flows is**

(1)Directly proportionaltor (2)Inversely proportionaltoI

(3)Directly proportionaltoI (4)Directly proportionaltol^2 (3)

63) **Lines of magnetic field around a current carrying straight conductor will be**

1) Straight linesparallel to conductor

2) Circular in a plane parallel to conductor (3)

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 theconductor

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 $B.d\ell$alonga 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 pair of 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. Inclinedat45^0at 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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74) **The electric current in a circular coil of two turns produced a magnetic induction of 0.2T at its centre. The coil is unwound and rewound in to a coil of four turns. The magnetic induction at the centre of the coil now is, in tesla (if the same current flows in the coil)**

(4)

1)0.2 2)0.4 3)0.6 4)0.8

75) **In an atom the electron has a time period of 0.16×10^{-15} s in a circular orbit of radius 0.5 A^0.The magnetic induction at the centre of the orbit will be (in tesla)**

(1)

1)12.56 2)125.6 3)1.256 4)25.12

76) **Acircular arc of wire subtends an angle$\pi/2$ at the centre. If it carries a current i and its radius of curvature is R then the magnetic field at the centre of the arc is**

(4)

1)$\mu_0 i$ 2)$\mu_0 i 2R$ 3)$\mu_0 i$ 4)$\mu_0 i 8R$

77) **The ratio of de Broglie wave lengths of two particles, having mass ratio 1 : 3 and kineticenergy ratio 2 : 1 is**

(2)

1)3 : 2

2)$\sqrt{3} : \sqrt{2}$

3) $\sqrt{2} : \sqrt{3}$

4)2 : 3

78) **In lanthanides, with increase in atomic number atomic radius decreases, except for the element X, what X?**

(1)

1)Gd

2)Eu

3)Tm

4)Dy

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**

(4)

a.XeF_4, NH_3

b.XeF_2, PF_5

c.BF_3, H_2O

d.CH_4, $BeCl_2$

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^{-1}. The molar mass of X in g mol^{-1} is**

(2)

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 M$KMnO_4$ solution. (Molar mass of $KMnO_4$ = 158 g mol^{-1})

(1)

1)4×10^{-2} N

2)2×10^{-2} N

3)6×10^{-2} N

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

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

(3)

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

$CuSO_4$ NaCN KCl

I II III

1)I < II < III

2)I < III < II

3)III < II < I

4)II < III < I

(2)

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

(2)

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_2H_6, the number of BH_2 groups present in one plane, and the numberof B-H bonds, B-B bonds, B-H-B bridge bonds are respectively**

(3)

1)2, 0, 3, 2

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

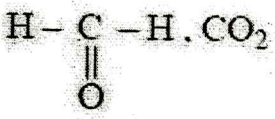
II. Silicon exists as both $[SiF_6]^{2-}$ and $[SiCl_6]^{2-}$ forms

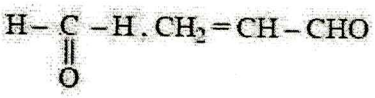
III. The hybridization of carbon in fullerene is sp^3

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) 

2) 

3) $CH_2 = CH\text{-}CHO$, C_2H_5CHO

4) CO_2, H_2O

89) Assertion (A): Propene on addition with hydrogen bromide in the presence of peroxide 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 3.5A and 3.0Arespectively. The ratio of density of fcc and bcc phasesapproximately is

1)1.5 : 1.0

2)1.0 : 1.5

3)1.26 : 1

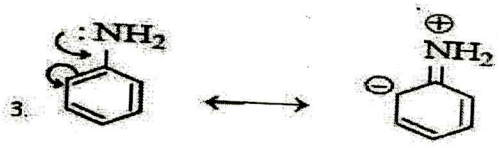
4)1 : 1.26

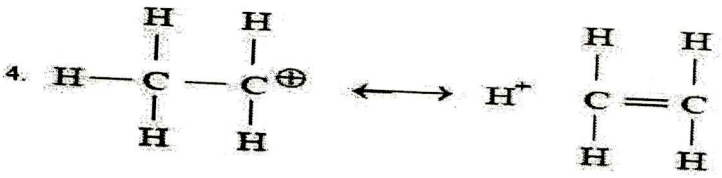
keykkkkgu

91.Which of the following represents the hyperconjugation effect?

1. 

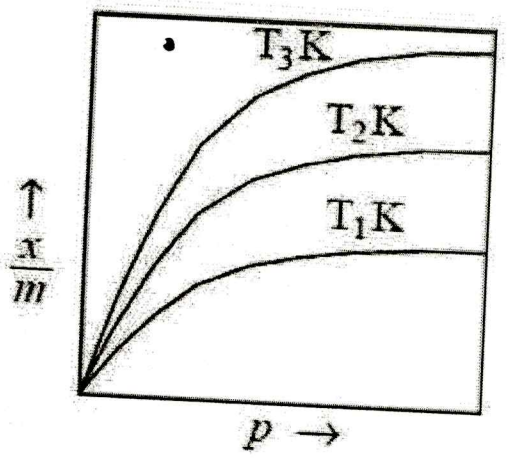
2. $CH_3-CH_2-CH_2 \rightarrow Cl$

3. 

4. 

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)$T_2 < T_1 < T_3$

keykkkgu

93). The ore which is concentrated by leaching

(2)

1)PbS

2)Al_2O_3, $2H_2O$

3)SnO_2

4)Fe_2O_3

94) Centre of mass of a body

1)Always lies inside the body
2) Always lies outside the body
3) Always lies on the surface of the body
4) May lie inside or outside the body

(4)

95)A bomb at rest explodes. The centre of mass of the system

(3)

1) Describes a parabola
2) Vertically upwards
3) Horizontally
4) Is at rest

96). Antigen presenting cells are

a) Dendritic cells
b) Activated macrophages
c) B-Cells
d)Dendritic cells, activated macrophages and B cells.

(4)

97) Which of the following chemicals is NOT involved in photochemical smog formation

1)SO_2 2)O_3 3)NO_2 4)NO

(1)

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

(2)

1)110 2)109 3)101 4)108

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

(d)

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

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75/100

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FREESHIP EXAMINATIONTEST

2020-21

Total Marks: 100 **Duration:** 180min

Name of the student: B. Santhosh **Date:** 4/12/2020

Avanthi Freeship No: AIPS2020006

1. Maximum transpiration is by (1)

1) Stomata 2) Cuticle 3) Lenticels 4) Cuticle & Lenticels

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 (4)

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

4. Source of protons during stomatal opening is (4)

1) Water 2) Sugars 3) Light 4) Malate

5. During opening of stomata, into the guard cells (3)

I: Entry of K+ is active II: Entry of Cl is active

III: Export of H+ is active IV: Entry of H_2O is active

Correct statements are

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

6. Transpiration can be demonstrated by (2)

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 transpire less** (4)

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 the correct explanation of A.

3) A is true, R is false 4) A is false, R is true

9. **Natural anti transpirant in plants is** (2)

1) Auxin 2) Malate 3) Proton 4) ABA

10. **Transpiration plays an indirect role in** (3)

1) Uptake & Transport of minerals 2) Absorption of water

3) Translocation of solutes 4) Distribution of water

11. **Transpiration is a 'necessary evil '- stated by** (4)

1) Slatyer 2) Arnon 3) Knop 4) Curtis

12. **Phenyl mercuric acetate (PMA) is** (3)

1) An antibiotic used as an antitranspirant

2) A fungicide used to increase transpiration

3) A fungicide used as an antitranspirant

4) A growth hormone used as an anti transpirant.

13. **Enzymes that use ATP for their activity is** (2)

1) Kinases 2) Synthetases

3) Transferases 4) Hydrolases

14. **Metallic co-factor in carboxy peptidase is** (3)

1)Fe 2)Mn 3) Zn 4)Mg

15. **Third number in the enzyme nomenclature indicates** (4)

1)Sub-Subclass 2)SubClasses 3)Major Classes 4)Serial number

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16. **Protein part in a holo enzyme is** (1)

1) Apoenzyme 2)Simple enzyme

3)Conjugated enzyme 4)Inducive enzyme

17. **The reaction CO_2+ H_2O ↔ H_2CO_3 requires** (1)

1) No enzyme 2)An enzyme

3)Very high temperatures 4)Very low temperatures

18. **. Immunity that protects against intracellular bacteria, virus & cancer cells is** (3)

a) Innate immunity b) Humoral immunity

c) Non-specific immunity d) Cell mediated immunity

19. **Stomatal Index is** (4)

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)

1) Soil into Xylem 2) Xylem into leaves

3) Xylem into atmosphere 4) Leaves into atmosphere

21. **Guttation is** (2)

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** (4)

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)

1) Wind is essential 2) Water potential gradient is essential

3) Light is essential. 4) Protons are essential.

24. True statement regarding environmental factors is (2)

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 (3)

1. Ion transfer 2.Transpiration

3. Photosynthesis 4.Hydrogen bond formation

26. Transpiration rate is inversely proportional to (4)

1)Temperature 2) Light 3) Gentle breeze 4) High wind speeds

27 . Stomatal opening and closing depends on (4)

1)pH changes 2) Guard cell size

3) Size of stomatal chamber 4) Solute concentration of guard cells

28 .During stomatal closing (4)

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)

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)

1)Photoactive 2) Scotoactive

3)Amphiactive 4) Hypoactive

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31)Rate of the transpiration from the upper surface and lower surface of the leaf can be known by (2)

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 Enters the stomach [1]

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 [b]

Column - I		**Column-II**
A)	Haustra	i) Palate
B)	Uvula	ii) Nasopalatine duct
C)	Sacculus rotundus	iii) Pharynx
D)	Jacobson's organ	iv) Colon
		v) Ileum

	A	B	C	B
a.	IV	I	V	II
c.	I	IV	II	V

	A	B	C	D
b.	IV	I	V	III
d.	I	IV	III	V

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

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 [c]

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

36). The cells that are not found in the gastric gland of rabbit are [d]

a.Oxyntic cells b. Zymogen cells c. Parietal cells d. Kupffer cells

37) Choose the correct statement [A]

a.Deficiency of protein intake causes kwashiorkor

b.Deficiency of fat intake causes marasmus disease

c.Deficiency of magnesium causes seborrheic sterility

d.Deficiency of niacin causes seborrheic dermatitis

38) choose the correct answer [d]

Salivary glands	**Character**
I) Infra-orbital	- Situated below the eye orbit
II) Parotid	- Open through Wharton's duct
III) Sub maxillary	- Open through Stensen's duct
IV) Sub lingual	- Situated below the tongue

a. I and II b. II and III c. III and I d. I and IV

39) Amino acids are the only end products by the action of which of the following enzymes acts on the protein constituents? [c]

a.Aminopeptidase b. Carboxypeptidase c. Tripeptidase d. Dipeptidase

40) The detoxifying organ of the body is [d]

a. Liver b. Pancreas c. Spleen d. Bone marrow

41) In normal conditions, the lower oesophageal sphincter prevents the regurgitataion offood from the [A]

a.Cardiac stomach to pyloric stomach b. Cardiac stomach to fundic stomach

c. Cardiac stomach to oesophagus d. Pyloric stomach to cardiac stomach

42) Formation of glucose in liver from non-carbohydrates is called [d]

a.Glycogenesis b. Gluconeogenesis c. Lipogenesis d. Glycogenolysis

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43) **Match the followings** [1]

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

	A	B	C	D		A	B	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** [b]

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?** [b]

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** [d]

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** [1]

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

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48) Proteolytic enzymes which act in acidic medium are [3]

a.Chymotrypsin, rennin b. Pepsin, Rennin

c. Pepsinogen,Trypsinogen d. Pepsin, Trypsin

49) Correct statement from the following is [2]

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 [c]

a.Parotid & sub maxillary b. Parotid & sublingual

c. Sub maxillary & sublingual d. Sublingual & Infra orbital

51) Dietetics' is related to the study of [a]

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]

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]

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 [b]

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:** [d]

a. ELISA-Test b. ESR – Test c. PCR – Test d. Widal-Test

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57) A current is flowing due north along a powerline.The direction of the magnetic field above it, neglecting the earth's field is:

(1)North (2)East (3)South (4)West

58). Find the wrong statement among the following

a) Malignant tumors exhibit metastasis

b) Benign tumors are with a fibrous outer capsule

c) Sarcomas are the malignant tumors of secondary lymphoid organs

d) Carcinomas are malignant tumors of the epithelial cells

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 L (2)Directly proportional L

(3)Inversely proportional to L (4)Inversely proportional to L^2

60). when an apparently healthy person is diagnosed as unhealthy by a psychiatrist, the reason could be that:

a. The patient was not efficient at his work

b. The patient was not economically prosperous

c. The patient shows behavioral and social maladjustment

d. He does not take interest in sports

61) When no external force is acting on a system of particles, the centre of mass of the system

1) Remains at rest only 2)Moves with constant velocity only

3) Moves with constant velocity or will be at rest 4) Moves with variable velocity

62) Field at the centre of circular coilo fradiusr,through which a currentI flows is

(1)Directly proportionaltor (2)Inversely proportionaltoI

(3)Directly proportionaltoI (4)Directly proportionaltoI^2

63) Lines of magnetic field around a current carrying straight conductor will be

1) Straight linesparallel to conductor

2) Circular in a plane parallel to conductor

3) Circular in a plane perpendicular to conductor

4)Straight perpendicular to conductor

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 theconductor

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 $B.d\ell$alonga 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 pair of 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. Inclinedat45^{0}at 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^{2}B 3)2nB 4)2n^{2}B

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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74) **The electric current in a circular coil of two turns produced a magnetic induction of 0.2T at its centre. The coil is unwound and rewound in to a coil of four turns. The magnetic induction at the centre of the coil now is, in tesla (if the same current flows in the coil)**

(3)

1)0.2 2)0.4 3)0.6 4)0.8

75) **In an atom the electron has a time period of 0.16×10^{-15} s in a circular orbit of radius 0.5 A^0.The magnetic induction at the centre of the orbit will be (in tesla)**

(1)

1)12.56 2)125.6 3)1.256 4)25.12

76) **Acircular arc of wire subtends an angle$\pi/2$ at the centre. If it carries a current i and its radius of curvature is R then the magnetic field at the centre of the arc is**

(2)

1)$\mu_0 i$ 2)$\mu_0 i 2R$ 3)$\mu_0 i$ 4)$\mu_0 i 8R$

77) **The ratio of de Broglie wave lengths of two particles, having mass ratio 1 : 3 and kineticenergy ratio 2 : 1 is**

(3)

1)3 : 2
2)$\sqrt{3} : \sqrt{2}$
3) $\sqrt{2} : \sqrt{3}$
4)2 : 3

78) **In lanthanides, with increase in atomic number atomic radius decreases, except for the element X, what X?**

(4)

1)Gd
2)Eu
3)Tm
4)Dy

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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)$CH_4 > CHCl_3$

[4]

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]

a.XeF_4, NH_3

b.XeF_2, PF_5

c.BF_3, H_2O

d.CH_4, $BeCl_2$

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^{-1}. The molar mass of X in g mol^{-1} is**

1)16

2)2

3)32

4)28

[2]

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 M$KMnO_4$ solution. (Molar mass of $KMnO_4$ = 158 g mol^{-1})

1)4×10^{-2} N

2)2×10^{-2} N

3)6×10^{-2} N

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

[2]

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

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

[3 ✗]

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

$CuSO_4$ NaCN KCl

I II III

1)I < II < III

2)I < III < II

3)III < II < I

4)II < III < I

[2 ✓]

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

[1 ✓]

86) **In the structure of B_2H_6, the number of BH_2 groups present in one plane, and the numberof B-H bonds, B-B bonds, B-H-B bridge bonds are respectively**

1)2, 0, 3, 2

2)3, 2, 2, 2

3)2, 4, 0, 2

4)2, 4, 2, 0

[3 ✓]

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87) Identify the incorrect statements from the following [3]

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

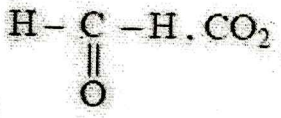
II. Silicon exists as both $[SiF_6]^{2-}$ and $[SiCl_6]^{2-}$ forms

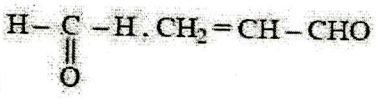
III. The hybridization of carbon in fullerene is sp^3

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 [2]

1) 

2) 

3) $CH_2 = CH\text{-}CHO$, C_2H_5CHO

4) CO_2, H_2O

89) Assertion (A): Propene on addition with hydrogen bromide in the presence of peroxide gives1-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 3.5A and 3.0Arespectively. 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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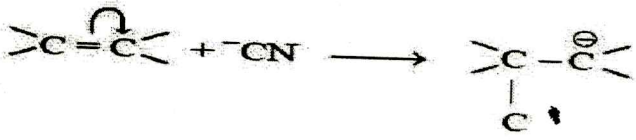
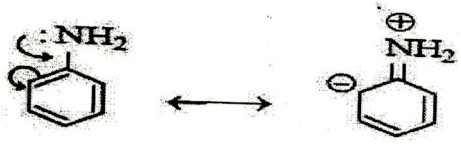
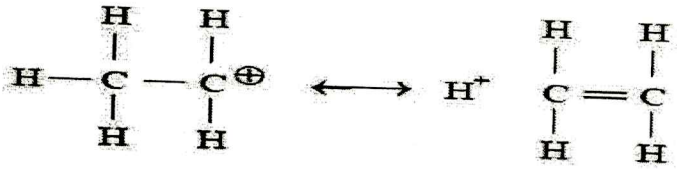
91.Which of the following represents the hyperconjugation effect?

(4)

1. 

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

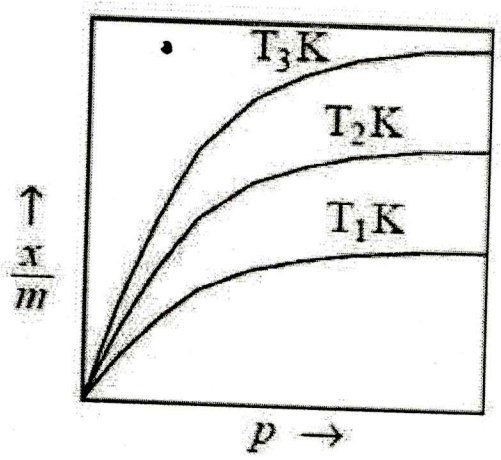
3. 

4. 

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

(3)



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_2O_3, $2H_2O$ [2]

3)SnO_2

4)Fe_2O_3

94) Centre of mass of a body [4]

1)Always lies inside the body
2) Always lies outside 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 [2]

1) Describes a parabola
2) Vertically upwards
3) Horizontally
4) Is at rest

96). Antigen presenting cells are [4]

a) Dendritic cells
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 [1]

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 [2]

1)110 2)109 3)101 4)108

100). An example for the less organised secondary lymphoid tissue [4]

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

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68/100

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FREESHIP EXAMINATIONTEST

2020-21

Total Marks: 100 **Duration:** 180min

Name of the student: Y. Siddhartha **Date:** 26/11/2020

Avanthi Freeship No: AIPS 2020039

1. Maximum transpiration is by (1)

1) Stomata 2) Cuticle 3) Lenticels 4) Cuticle & Lenticels

2. Scotoactive stomata (2)

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 (3)

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

4. Source of protons during stomatal opening is (4)

1) Water 2) Sugars 3) Light 4) Malate

5. During opening of stomata, into the guard cells (3)

I: Entry of K+ is active II: Entry of Cl is active

III: Export of H+ is active IV: Entry of H_2O is active

Correct statements are

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

6. Transpiration can be demonstrated by (2)

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 transpire less** (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 the correct explanation of A.

3) A is true, R is false 4) A is false, R is true

9. **Natural anti transpirant in plants is** (4)

1) Auxin 2) Malate 3) Proton 4) ABA

10. **Transpiration plays an indirect role in** (3)

1) Uptake & Transport of minerals 2) Absorption of water

3) Translocation of solutes 4) Distribution of water

11. **Transpiration is a 'necessary evil '- stated by** (4)

1) Slatyer 2) Arnon 3) Knop 4) Curtis

12. **Phenyl mercuric acetate (PMA) is** (3)

1) An antibiotic used as an antitranspirant

2) A fungicide used to increase transpiration

3) A fungicide used as an antitranspirant

4) A growth hormone used as an anti transpirant.

13. **Enzymes that use ATP for their activity is** (2)

1) Kinases 2) Synthetases

3) Transferases 4) Hydrolases

14. **Metallic co-factor in carboxy peptidase is** (3)

1)Fe 2)Mn 3) Zn 4)Mg

15. **Third number in the enzyme nomenclature indicates** (1)

1)Sub-Subclass 2)SubClasses 3)Major Classes 4)Serial number

16. **Protein part in a holo enzyme is** (1)

1) Apoenzyme 2)Simple enzyme

3)Conjugated enzyme 4)Inducive enzyme

17. **The reaction $CO_2 + H_2O \leftrightarrow H_2CO_3$ requires** (1)

1) No enzyme 2)An enzyme

3)Very high temperatures 4)Very low temperatures

18. **. Immunity that protects against intracellular bacteria, virus & cancer cells is** (4)

a) Innate immunity b) Humoral immunity

c) Non-specific immunity d) Cell mediated immunity

19. **Stomatal Index is** (2)

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)

1) Soil into Xylem 2) Xylem into leaves

3) Xylem into atmosphere 4) Leaves into atmosphere

21. **Guttation is** (1)

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)

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)

1) Wind is essential 2) Water potential gradient is essential

3) Light is essential. 4) Protons are essential.

24. True statement regarding environmental factors is (3)

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)

1. Ion transfer 2.Transpiration

3. Photosynthesis 4.Hydrogen bond formation

26. Transpiration rate is inversely proportional to (4)

1)Temperature 2) Light 3) Gentle breeze 4) High wind speeds

27 . Stomatal opening and closing depends on (4)

1)pH changes 2) Guard cell size

3) Size of stomatal chamber 4) Solute concentration of guard cells

28 .During stomatal closing (1)

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)

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)

1)Photoactive 2) Scotoactive

3)Amphiactive 4) Hypoactive

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31)Rate of the transpiration from the upper surface and lower surface of the leaf can be known by (1)

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 Enters the stomach (2)

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 (1)

Column - I		**Column-II**
A)	Haustra	i) Palate
B)	Uvula	ii) Nasopalatine duct
C)	Sacculus rotundus	iii) Pharynx
D)	Jacobson's organ	iv) Colon
		v) Ileum

	A	B	C	B		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 papillae arranged in semicircle at the base of tongue are (c)

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 (c)

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

36). The cells that are not found in the gastric gland of rabbit are (b)

a.Oxyntic cells b. Zymogen cells c. Parietal cells d. Kupffer cells

37) Choose the correct statement (a)

a.Deficiency of protein intake causes kwashiorkor

b.Deficiency of fat intake causes marasmus disease

c.Deficiency of magnesium causes seborrheic sterility

d.Deficiency of niacin causes seborrheic dermatitis

38) choose the correct answer (d)

Salivary glands	**Character**
I) Infra-orbital	- Situated below the eye orbit
II) Parotid	- Open through Wharton's duct
III) Sub maxillary	- Open through Stensen's duct
IV) Sub lingual	- Situated below the tongue

a. I and II b. II and III c. III and I d. I and IV

39) Amino acids are the only end products by the action of which of the following enzymes acts on the protein constituents? (c)

a.Aminopeptidase b. Carboxypeptidase c. Tripeptidase d. Dipeptidase

40) The detoxifying organ of the body is (d)

a. Liver b. Pancreas c. Spleen d. Bone marrow

41) In normal conditions, the lower oesophageal sphincter prevents the regurgitataion offood from the (d)

a.Cardiac stomach to pyloric stomach b. Cardiac stomach to fundic stomach

c. Cardiac stomach to oesophagus d. Pyloric stomach to cardiac stomach

42) Formation of glucose in liver from non-carbohydrates is called (d)

a.Glycogenesis b. Gluconeogenesis c. Lipogenesis d. Glycogenolysis

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43) **Match the followings** (A)

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

	A	B	C	D		A	B	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** (d)

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?** (d)

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** (3)

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)

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

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48) **Proteolytic enzymes which act in acidic medium are** (c)

a.Chymotrypsin, rennin b. Pepsin, Rennin

c. Pepsinogen,Trypsinogen d. Pepsin, Trypsin

49) **Correct statement from the following is** (c)

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** (c)

a.Parotid & sub maxillary b. Parotid & sublingual

c. Sub maxillary & sublingual d. Sublingual & Infra orbital

51) **Dietetics' is related to the study of** (d)

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** (d)

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?** (b)

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** (d)

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)

a) NK cells b) Tears c) T cells d) Phagocytes

56) **The chemical test that is used for diagnosis of typhoid is:** (c)

a. ELISA-Test b. ESR – Test c. PCR – Test d. Widal-Test

57) **A current is flowing due north along a powerline.The direction of the magnetic field above it, neglecting the earth's field is:** (A)

(1)North (2)East (3)South (4)West

58). **Find the wrong statement among the following** (B)

a) Malignant tumors exhibit metastasis

b) Benign tumors are with a fibrous outer capsule

c) Sarcomas are the malignant tumors of secondary lymphoid organs

d) Carcinomas are malignant tumors of the epithelial cells

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** (c)

(1)Independent of L (2)Directly proportional L

(3)Inversely proportional to L (4)Inversely proportional to L^2

60). **when an apparently healthy person is diagnosed as unhealthy by a psychiatrist, the reason could be that:** (a)

a. The patient was not efficient at his work

b. The patient was not economically prosperous

c. The patient shows behavioral and social maladjustment

d. He does not take interest in sports

61) **When no external force is acting on a system of particles, the centre of mass of the system** (b)

1) Remains at rest only 2)Moves with constant velocity only

3) Moves with constant velocity or will be at rest 4) Moves with variable velocity

62) **Field at the centre of circular coilo fradiusr,through which a currentI flows is** (c)

(1)Directly proportionaltor (2)Inversely proportionaltoI

(3)Directly proportionaltoI (4)Directly proportionaltoI^2

63) **Lines of magnetic field around a current carrying straight conductor will be** (d)

1) Straight linesparallel to conductor

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 theconductor

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 $B.d\ell$ alonga 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 pair of viral diseases? (1)

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? (2)

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: (2)

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. Inclinedat45^0at 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)

1)nB 2)n^2B 3)2nB 4)$2n^2B$

73)The magnetic field at the centre of the current carrying coilis (3)

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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74) **The electric current in a circular coil of two turns produced a magnetic induction of 0.2T at its centre. The coil is unwound and rewound in to a coil of four turns. The magnetic induction at the centre of the coil now is, in tesla (if the same current flows in the coil)** (4)

1)0.2 2)0.4 3)0.6 4)0.8

75) **In an atom the electron has a time period of 0.16×10^{-15} s in a circular orbit of radius 0.5 A^0.The magnetic induction at the centre of the orbit will be (in tesla)** (1)

1)12.56 2)125.6 3)1.256 4)25.12

76) **Acircular arc of wire subtends an angle$\pi/2$ at the centre. If it carries a current i and its radius of curvature is R then the magnetic field at the centre of the arc is** (4)

1)$\mu_0 i$ 2)$\mu_0 i 2R$ 3)$\mu_0 i$ 4)$\mu_0 i 8R$

77) **The ratio of de Broglie wave lengths of two particles, having mass ratio 1 : 3 and kineticenergy ratio 2 : 1 is** (3)

1)3 : 2

2)$\sqrt{3} : \sqrt{2}$

3) $\sqrt{2} : \sqrt{3}$

4)2 : 3

78) **In lanthanides, with increase in atomic number atomic radius decreases, except for the element X, what X?** (2)

1)Gd

2)Eu

3)Tm

4)Dy

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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**

a.XeF_4, NH_3

b.XeF_2, PF_5

c.BF_3, H_2O

d.CH_4, $BeCl_2$

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^{-1}. The molar mass of X in g mol^{-1} is**

1)16

2)2

3)32

4)28

82) **From the given reaction**

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

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

1)4×10^{-2} N

2)2×10^{-2} N

3)6×10^{-2} N

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

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

$CuSO_4$ NaCN KCl

I II 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_2H_6, the number of BH_2 groups present in one plane, and the numberof B-H bonds, B-B bonds, B-H-B bridge bonds are respectively

1)2, 0, 3, 2

2)3, 2, 2, 2

3)2, 4, 0, 2

4)2, 4, 2, 0

87) Identify the incorrect statements from the following (3)

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

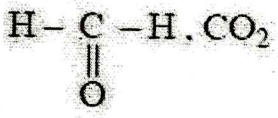
II. Silicon exists as both $[SiF_6]^{2-}$ and $[SiCl_6]^{2-}$ forms

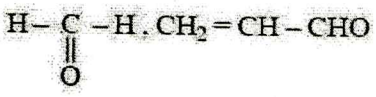
III. The hybridization of carbon in fullerene is sp^3

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 (2)

1) 

2) 

3) $CH_2 = CH\text{-}CHO$, C_2H_5CHO

4) CO_2, H_2O

89) Assertion (A): Propene on addition with hydrogen bromide in the presence of peroxide gives1-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 3.5A and 3.0Arespectively. The ratio of density of fcc and bcc phasesapproximately is (4)

1)1.5 : 1.0

2)1.0 : 1.5

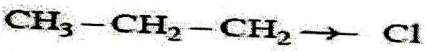
3)1.26 : 1

4)1 : 1.26

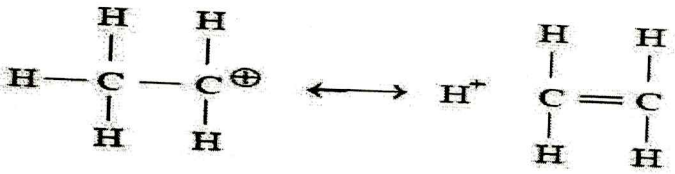
keykkkkgu

91.Which of the following represents the hyperconjugation effect? (2)

1. 

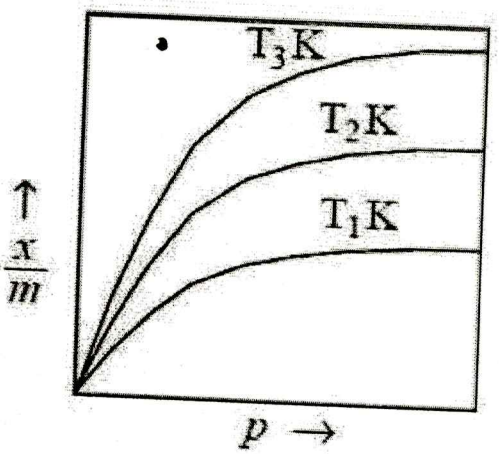
2. 

3. 

4. 

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 (3)



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

keykkkgu

93). The ore which is concentrated by leaching (4)

1)PbS

2)Al_2O_3, $2H_2O$

3)SnO_2

4)Fe_2O_3

94) Centre of mass of a body (4)

1)Always lies inside the body 2) Always lies outside 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 (4)

1) Describes a parabola 2) Vertically upwards
3) Horizontally 4) Is at rest

96). Antigen presenting cells are (3)

a) Dendritic cells 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 (4)

1)SO_2 2) O_3 3)NO_2 4)NO

98). Gamma interferons are produced by (1)

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 (d)

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

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AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES
Gunthapally (V), Abdullapurmet (M),
R.R. Dist. Telangana.

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

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

AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES * ABDULLAPURMET *

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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

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

APPLICATION TO AVAIL FREESHIP/CONCESSION
2020-2021

1. Name of the Student: A. Rama Krishna.
2. Registered no: 20GNIR0001
3. Branch: B-pharm, 1yr
4. Father name: A. Anjaiah
5. Mother Name: A. Anitha
6. Father Occupation: Farmer
7. Mother Occupation: Housewife
8. Parent Income: 1,25,000
9. Residential Address: 6-95/A, Lakshma Reddy palem, pedda-mberpet Hyd.
10. Community & Caste: BC
11. Eamcet Rank: 25780
12. Convenor / Management: Convenor
13. Previous Education details: 10th, Inter
    a. School Studied: Z.P.H.School
    b. S.S.C Grade / Percentage: 7.2
    c. Intermediate Studied : T.S.W.R.E.S
    d. Intermediate Percentage : 91%

Date: 05/12/21

A. Ramakrishna
Signature

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

APPLICATION TO AVAIL FREESHIP/CONCESSION
2020-2021

1. Name of the Student: DANGALI SWAPNA
2. Registered no: 20GNIR00015
3. Branch: B-pharmacy I st yr.
4. Father name: D. Narsimulu
5. Mother Name: D. Pramila
6. Father Occupation: Agriculture
7. Mother Occupation: Housewife
8. Parent Income: 1,00,000
9. Residential Address: Marikal, Kulka Chala, Ranga Reddy.
10. Community & Caste: SC
11. Eamcet Rank: 35,488
12. Convenor / Management: Convenor
13. Previous Education details: 10th, Inter
    a. School Studied: Z.P.H.School
    b. S.S.C Grade / Percentage: 7.5 (A+)
    c. Intermediate Studied : Prathiba Jr. College
    d. Intermediate Percentage : 82 %

Date: 18/12/20

Signature

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

APPLICATION TO AVAIL FREESHIP/CONCESSION
2020-2021

1. Name of the Student: PAKALA HARSHINI
2. Registered no: 20GN1R0066
3. Branch: B.Pharmacy Ist year
4. Father name: P. Rajendra Prasad Rao
5. Mother Name: P. Anitha
6. Father Occupation: Private employee
7. Mother Occupation: Housewife
8. Parent Income: 1,00,000/-
9. Residential Address: 12-1-364/2, IndraPrastha colony Bandlaguda Nagole
10. Community & Caste: OC
11. Eamcet Rank: 31758
12. Convenor / Management: Management
13. Previous Education details: 10th, Inter
    a. School Studied: Johnson Grammar school
    b. S.S.C Grade / Percentage: (A+) 8.8
    c. Intermediate Studied : Sri chaitanya Junior College
    d. Intermediate Percentage : 81%

Date: 16/12/2020

Signature

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AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES
Gunthapally (V), Abdullapurmet (M),
R.R. Dist. Telangana.

APPLICATION TO AVAIL FREESHIP/CONCESSION
2020-2021

1. Name of the Student: BHUKYA. SANTHOSH
2. Registered no: 20GNIR0008
3. Branch: B-pharmacy I st year
4. Father name: B. lachiRam
5. Mother Name: B. Mounika
6. Father Occupation: Farmer
7. Mother Occupation: .....
8. Parent Income: 1,40,000
9. Residential Address: Vasram Thanda, Nellikudur, Mahabubabad
10. Community & Caste: ST
11. Eamcet Rank: 41074
12. Convenor / Management: .....
13. Previous Education details: 10th, Inter
    a. School Studied: Govt' high school
    b. S.S.C Grade / Percentage: 6.5 (A)
    c. Intermediate Studied : Sri balaji Jr. College
    d. Intermediate Percentage : 77%.

Date: 30/12/20

Signature

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AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES
Gunthapally (V), Abdullapurmet (M),
R.R. Dist. Telangana.

APPLICATION TO AVAIL FREESHIP/CONCESSION
2020-2021

1. Name of the Student: YEDE SIDDHARTHA
2. Registered no: 20GNIR0G57
3. Branch: B. Pharmacy I st Year
4. Father name: Y Venkatesh
5. Mother Name: Y Swapna
6. Father Occupation: R.M.P Doctor
7. Mother Occupation: —
8. Parent Income: 950001—
9. Residential Address: H.No: 1-49, Durki(v) Nasurlabad(M) Kamareddy (D)
10. Community & Caste: BC
11. Eamcet Rank: 21330
12. Convenor / Management: Convenor
13. Previous Education details:
    a. School Studied: Akshaya high school
    b. S.S.C Grade / Percentage: A+ 9.3
    c. Intermediate Studied : Narayana Junior College
    d. Intermediate Percentage : 94%

Date: 20/12/2020

Signature

PRINCIPAL
AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES
Gunthapally (V), Abdullapurmet (M),
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

Thanking you sir

Yours faithfully,

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

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	NARLA SRICHAITRA	8500
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

AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES * ABDULLAPURMET *

PRINCIPAL
AVANTHI INSTITUTE OF PHARMACEUTICAL 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	BOMMINI RAGHAVENDRA	2000
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	POREDDY SHARVANI	1000

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AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES
Gunthapally (V), Abdullapurmet (M), R.R. Dist. Telangana.

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

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

Sanction Letter

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

Name ..A. Ramakrishna..... S/o / D/o A. Anjaiah.....

Branch .B-pharmacy Roll number 20GN1R0001 Concession / free ship in tuition fee / Hospital fee / Transportation fee / JNTU fee / amount in Rs .15,000..

Director

AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES * ABDULLAPURMET

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

Sanction Letter

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

Name ... D. Swapna ..... S/o / D/o ..D. Narasimulu....

Branch B-pharmacy Roll number 20G1R0015... Concession / free ship in tuition fee / Hospital fee / Transportation fee / JNTU fee / amount in Rs . 71500..

Director

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

Sanction Letter

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

Name ..P. Hasshini..... S/o / D/o ..P. Rajendra Prasad

Branch B. pharmacy Roll number 20GNIR0066. Concession / free ship in tuition fee / Hospital fee / Transportation fee / JNTU fee / amount in Rs 11,500...

Director

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

Sanction Letter

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

Name .B. Santhosh..... S/o / D/o ..B. Lachiram.....

Branch B-pharmacy Roll number.20GNIR0008 Concession / free ship in tuition fee / Hospital fee / Transportation fee / JNTU fee / amount in Rs .9500....

Director

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

Sanction Letter

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

Name ..Y. Siddardha..... S/o / D/o ..Y. Venkatesh.....

Branch B-pharmacy Roll number 20GN1R0057 Concession / free ship in tuition fee / Hospital fee / Transportation fee / JNTU fee / amount in Rs . 6,500...

Director

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

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	ARROLLA ARUNA	3000
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	APPALLA VAMSY SUBBA RAO	5000
12	II YR B.PH	19GN1R0046	GADDAM SNEHA	5000
13	II YR B.PH	19GN1R0063	GUTTI MAHESH	5000
14	II YR B.PH	19GN1R0065	MUTHYALA SHIREESHA	3000
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 PADMAKSHI	5000

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

24	III YR B.PH	18GN1R0004	BELDHE SWETHA	5000
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

AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES * ABDULLAPURMET *

PRINCIPAL
AVANTHI INSTITUTE OF
PHARMACEUTICAL SCIENCES
Gunthapally (V), Abdullapurmet (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

PRINCIPAL
AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES
Gunthapally (V), Abdullapurmet (M),
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,

AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES ABDULLAPURMET

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

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	II	19GN1R0029	k.GAYATHRI	II	3000
3	B PHARM	III	18GN1R0072	G.SRAVANI	I	5000
4	B PHARM	III	18GN1R0063	R.SAI KIRAN GOUD	II	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	II	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 **Total Amount: Rs 80,000**

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

Date : 22/01/21

To.

The principal sir.

Avanthi institute of pharmaceutical sciences.

Gunthapally.

Respected Sir.

Sub: Ragarding fee concession.

I am K. swetha from pharmaD.

III.yr H.T. NO: 18GN1T0019. I am writing this letter to inform you that to reduce my bus fee due to that I'm travelling a very less distance in bus. unexpectedly I'm living nearer to the college. so I kindly requesting to reduce my bus free (5000)

Thanking you sir

Approved

Yours faithfully

K. swethea

18GN1T0019.

K. swethea

Signature

Date:- 20/12/20

TO

The poincipal sir

Avanthi institute of pharmaceutical sciences

Gunthapally

Respected sir

sub:- Regarding fee concession

I am J. Yogitha from pharm-D

III year HT-NO:- 18GN1T0023. I am writing this letter to inform you that I am a single parent child. so I'm unable to pay full fee. I'm requesting you to relief some fee from full fee (3000)

Thanking you sir

Approved

Yours obidently

J. yogitha

18GN1T0023

yogitha.

signature

22/01/21
Gunthapally,.

To,
The principal sir,
Avanthi Institute of pharmaceutical Sciences.
Gunthapally.

Respected Sir,

Sub:- Regarding fee Concession,

I am. Y. Meghana. from II yr pharm D. H.T No:- 18G1T0010, Sir 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 sir

Approved

yours faithfully.
Y. Meghana
II yr pharm D
18G1T0010

Date:- 20/12/20

To,

The principal sir,

Avanthi Institute of pharmaceutical sciences

Gunthapally. Abdmet.

R.R (dist)

From

P. Brahmachary

II nd year pharm-D

Sub:- Application for fee concession

Respected sir,

I'm P. Brahmachary from 2nd year pharm-D collage. Due to financial difficulties faced 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

Approved D

Yours sincerely

P. Brahmachary

II nd year pharm D

19GNIT0013.

P. Bhavana.

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: 17GN1R0052. Sir, I am from very poor family & my parents are not well from last few months. So, I cant afford that much of fee. So, please I request yout to understand my conditions & reduce the fee (3000)

Thanking you Sir,

Accepted

Yours faithfully.
G. Roopa Devi
IV year B. Pharm
17GN1R0052.

20/12/20,
Gunthapally.

To
The principle
Avanthi Institute Of Pharmaceutical Sciences
Gunthapally

Respected sir,

Sub: Regarding fee concession

I am pavani II nd yr of B.Pharmacy. HTNo. 19GN1R0004. I request to principal Sir to reduce some tution fee as iam from poor family. I cant pay that much fee so please reduce a little fee (8000)

Approved

Thanking you sir

yours faithfully.
A Pavani
II nd yr B.Pharm
19GN1R0004

20/12/20
Gunthapally

To
The principal sir
Avanthi Institute of pharmaceutical sciences
Gunthapally.

Respected sir,

Sub:- Regarding fee concession.

I am Gr. saipragna from pharm-D IV year HT.NO:- 17GN1T0024. I am writing this letter to inform you that I am from poor family. My family income is not enough to pay the full fee of the college. so I'm hombly requesting you to relief some fee(3000)

thanking you sir.

Approved

yours faithfully,
Gr. saipragna
17GN1T0024
pharm-D
IV year

Date: 22/01/2024

To,
The principle sir
Avanthi institute of pharmaceutical science.
Gunthapally

Respected Sir,

Sub: Regarding fee concession

I am S. Kushal from pharm D V year HT.NO. 16ENIT0020 I am 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 reduce my college fee (5000)

Approved

Thanking you Sir.

yours obedently
S. Kushal
16GNIT0020

18/2/21
Gunthapally

To
The principal
Avanthi Institute of pharmaceutical sciences
Gunthapally.

Respected sir.

sub:- Regarding fee concession.

Iam T. Kavya from pharm-D Vyears. Roll. NO:- 16GNITOO13. 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 (3000)

Thanking you.

Approved

Yours obediently
T. Kavya.
16GNITOO13

22/01/21.
Hyderabad.

To
The principal sir,
Avanthi Institute of pharmaceutical sciences,
Gunthapally (vi), Abdullapurmet (m),
R.R. (dist).

Sub:- Regarding fee concession.

Respected sir,

I'm G. sravani from IIIrd year B.pharmacy
This is to inform you that, my father is Bus driver, & not getting enough money. my father is unable do pay the full fee so I humbly request you to concess fee (3000)

Approved

Thanking you

yours faithfully
G. sravani,
IIIrd year B.pharm
18GN1R0050

TO

The. principal.

Avanthi Institute of pharmaceutical sciences

Gunthapally (Vi). Abdullapurmet (m)

Rangareddy (dist)

18/2/21

Hyderabad

Sub:- Regarding fee reducing

Respected sir

I'm S. omes from III rd year B.Pharm I am here to inform you that. since my father doing job Also we are. not getting enough money. my father is unable to pay the. pay fee (3000) so. Please humbly requesting to relief some fee.

Thanking you

Accepted

Yours faithfully

S. omes

III rd year B.pharm

18GN1R0038

Date: 20/12/20
Gunthapally.

To,
The Principal Sir.
Avanthi institute of pharmaceutical sciences.
Gunthapally.

Respected Sir.

Sub: Regarding fee concession.

I am K. Kiranmai from M.pharm II years HT No: 19GN1S0310. I am writing this letter to inform you that my father recently retired from his job and also his health is not well I am unable to pay full fee so I'm kindly requesting you to reduce my fee (5000).

thanking you Sir.

Approved

Yours obidently.
K. Kiranmai
19GN1S0310.
Kiranmai
Signature

18/02/2021,
Guntapally.

To.
The Principal sir,
Avanthi Institute of pharmaceutical science,
Guntapally, Abdullapur Methu (M) R.R. (Dist)

Subject :- Application for fee. reducing.

Respected sir,

I am G. Gomathi From B. pharm. III rd year I am writing this Letter for request for a concession on my Tuition fee (3000) as. my father was not keeping well for the last few months. Therefore. the family. income has been. vastly. decreased. and very less. money is left For the Expenses of my studies. I will be highly. Obliged. If my. request can be. kindly. considered.

Approved

Thanking you.

Yours. sincerely,
G. Gomathi,
3rd year. B. pharm
189R1R0060
Gomathi
Sign

Hyderabad,
20/12/20.

TO
The principal sir,
Avanthi Institute of pharmaceutical sciences,
Gunthapally (vi), Abdullapurmet (M),
Rangareddy (dist).

Sub: Application for fees concession.

Respected sir,

I'm B. Swetha from IIIrd year B.pharm. I am writing this letter to you inform that I am a single parent child. There is not enough money to spend our family so, there is not enough money to pay full fee (5000). my mother is unable to pay the fee. So, please, humble requesting to reduce my fee.

Thanking you

Approved
JP

Yours faithfully
B. Swetha
IIIrd year. B.pham
18GA1R0004.

22/1/21,
Gunthapally.

TO
The Principle Sir
Avanthi Institute of pharmaceutical sciences.
Gunthapally.

Respected Sir.

Sub:- Regarding Tution Fee concession

I am Kanna Madhu of II year B.Pharm HNO:19GNIR0026
I request to you to Reduce my Tution Fee
because am single Parent child. my family
cannot afford that much of fee so
Please reduce my fee sir (3000)

Approved

Thanking you sir.

Yours Faithfully
K. Madhu.
II B. Pharm.
19GNIR0026.

Date : 18/02/20

Guntapally.

To,

The principal sir

Avanthi institute of pharmaceutical

Guntapally.

Respected sir,

Sub : Regarding fee concession

I am komal yadav from M.pharm 1st year H.T.No. 204M180303 I am writing this letter to convey that my father is a farmer by occupation as we know that this year is a heavy rainfall due to this, our crops has been damaged and we didn't get proper income. so I am kindly requesting you to relief some fee by concession (5000)

Approved

Thanking you sir,

yours obidiently.

komalyadav

204M180303

Komal

Signature

Date:- 18/2/21
Gunthapally

To
The principal sir
Avanthi Institute of pharmaceutical sciences.
Gunthapally

Respected sir

sub:- Regarding Tution fee concession.

Iam Guntuku madhusudhan kumar. from B.pharm II year Guntuku . HT.NO : 19GN1R0083. my parients are working labours. That's why I cant afford that much of Tution fee. so please sir. redure my tution fee [5000]

Approved

Thanking you sir

Yours faithfully
G. madhusudhan.
II year. B.pharm
19GN1R0083

22/1/21,
Gunthapally.

To

The principal Sir.

Aranthi Institute of pharmaceutical sciences

Gunthapally

Respected Sir,

Sub: Regarding fee concession

I am B. sheetal from Pharm.D II year HT.NO: 19GNITOOO1 Sir. am from very poor family and am a single parent child. I cant afford that much of fee. So please I request you to reduce my fee (5000)

Thanking you Sir

Your's faithfully

B. Sheetal

II year. Pharm.D

19GNITOOO1

Date:- 22/1/2021

To

The principal sir

Avanthi institute of pharmaceutical sciences

Gunthapally

Respected sir

sub:- Regarding fee concession

I am Ampili Dhana shekhar from m.pharm II year HT.NO:- 19GN1S1211. I am 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,

Your faithfully

A. DHANA SEKHAR

19GN1S1211