

Set - 10 Full Length Test - 2025

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PHYSICS

1. 1) Dimension of L/RCV is same as

1 point

Mark only one oval.

- Force
- Energy
- Current
- Gravitational constant

2. 2) Which of the following is vector quantity?

1 point

Mark only one oval.

- Gravitational potential
- Electric current
- Current density
- Angle

3. 3) The slope of velocity time graph gives

1 point

Mark only one oval.

- Acceleration
- Uniform speed
- Displacement
- Stationary object

4. 4)A stone is thrown by a person in train, into the platform the path of the stone as observed by a man in platform is 1 point

Mark only one oval.

- Straight line
- Hyperbolic
- Parabolic
- Elliptical

5. 5)A man is standing on the elevator coming downward. The acceleration of elevator is 4.9m/s^2 and wt of man is 60kg, then find the apparent wt of the man 1 point

Mark only one oval.

- 60Kg
- 90kg
- 180kg
- 30kg

6. 6)If a body with KE is projected at an angle A with horizontal. then the potential energy at the highest point is 1 point

Mark only one oval.

- 0
- E
- $E\sin^2A$
- $E\cos^2A$

7. 7)When a body moves with a constant speed along a circle 1 point

Mark only one oval.

- No acceleration
- No force acts on the body
- Velocity remains constant
- Work done is zero

8. 8)Moment of inertia doesn't depend upon 1 point

Mark only one oval.

- Mass
- Radius
- Distribution of mass
- Angular velocity

9. 9)The cork weights 5g in air. The sink weights 86g in water, Cork when kept in sink weights 71g in water. the density of cork is in Kg m^{-3} 1 point

Mark only one oval.

- 250J
- 350J
- 280J
- 480J

10. 10)A bimetallic stripe when heated will bend towards: 1 point

Mark only one oval.

- Metal having less coefficient of linear expansion
- Metal having more coefficient of linear expansion
- Will remain straight
- None

11. 11)A body of mass 10gm was given a heat of 210J. Find the rise in temperature.(SP.heat capacity of water=4200 1 point

Mark only one oval.

- 1degree celsius
- 5K
- 1 degree kelvin
- 10K

12. 12)An aluminium sphere is heated from 0°C to 100°C. The change in volume of the sphere of 10cm radius(Cubical expansivity ofAl is $5.4 \times 10^{-5}/C$) 1 point

Mark only one oval.

- 20cc
- 12.3cc
- 22.6cc
- 28.9cc

13. 13)A glass vessel just holds 60g of a liquid at 0°C if the coefficient of linear expansion of glass is $8 \times 10^{-6}/C$ the mass of liquid holds at 80°C 1 point

Mark only one oval.

- 46g
- 48g
- 50.1g
- 42g

14. 14)When a column of mercury in glass tube is heated, the length of mercury column 1 point

Mark only one oval.

- Descends continuously
- Ascends continuously
- First descends and then ascends
- First ascends and then desends

15. 15)In an ideal gas the molecules posses 1 point

Mark only one oval.

- Only kinetic energy
- Only potential energy
- Kinetic energy and potential energy both
- Only gravitational energy

16. 16)1g ice at 0°C and 1 g steam at 100°C are mixed,the resulting temperature is:

1 point

Mark only one oval.

- 100 °C
- 0°C
- 230°C
- 250°C

17. 17)An adiabatic process occurs at constant

1 point

Mark only one oval.

- Temperature
- Pressure
- Heat
- None of them

18. 18)During an Adiabatic expansion of 2 moles of a gas,the internal energy of the gas is found to be decreased by 2 joule, the work done during the process on the gas will equal to:

1 point

Mark only one oval.

- 1J
- 1J
- 2J
- 2J

19. 19)Theoretically the number of images formed between two parallel mirrors is

1 point

Mark only one oval.

- 4
- 2
- 16
- infinity

20. 20)Power of plane mirror in diopetre is

1 point

Mark only one oval.

- +1
- 1
- 0
- Infinity

21. 21)Critical angle of diamond is

1 point

Mark only one oval.

- 24
- 18
- 36
- 48

22. 22)The power pf lens is measured in 1 point

Mark only one oval.

- Dioptre
 Calorie
 Gram
 Centimeter

23. 23)Limiting angle of prism is...the critical angle 1 point

Mark only one oval.

- equal
 twice
 indefinite
 Half

24. 24)A person can't see object beyond 50cm.then focal length of the lens required to correct his defect and enable to see to infinity is 1 point

Mark only one oval.

- 50cm
 -50cm
 100cm
 75cm

25. 25)The ratio of two intensities is 9:1, then the ratio of maximum to minimum intensity is 1 point

Mark only one oval.

- 16:4
 100:64
 64:100
 4:16

26. 26)Unusual colouration seen in oil drops is due to 1 point

Mark only one oval.

- Reflection
 polarization
 Refraction
 Interference

27. 27)Youngs double slit experiment is performed inside water,the Fringe width will 1 point

Mark only one oval.

- Decrease
 Remains same
 Increases
 None

28. 28) Two equal resistances in parallel have a value of 10 ohm, the resistance of each is ...ohm 1 point

Mark only one oval.

- 20
- 40
- 5
- 15

29. 29) The temperature above which a ferromagnetic substance becomes paramagnetic is called 1 point

Mark only one oval.

- Joules point
- Curie point
- Curies point
- Maxwell point

30. 30) If the strength of the current is decreased by 4% the power of the bulb will change by 1 point

Mark only one oval.

- 8%
- 0.01%
- 2%
- nearly 4%

31. 31) A magnetic needle is kept in a non-uniform magnetic field. It experiences 1 point

Mark only one oval.

- a force and torque
- A force not a torque
- A torque not a force
- no torque, no force

32. 32) If the temperature scale is changed from °C to °F, the numerical value of specific heat will 1 point

Mark only one oval.

- Increases
- Decreases
- Remains unchanged
- None of above

33. 33) Optical fibres are based on the principle of 1 point

Mark only one oval.

- Interference
- Dispersion
- Refraction
- Total internal reflection

34. 34) If the temperature difference on the two sides of a wall increases from 100°C to 200°C , its thermal conductivity 1 point

Mark only one oval.

- Remains unchanged
- is doubled
- is halved
- Becomes four times

35. 35) A wave is represented by $X=0.4\cos(8t-Y/2)$ where X and Y are in meters and t is seconds. The frequency of the wave is 1 point

Mark only one oval.

- $4/\pi$ Hz
- $8/\pi$ Hz
- $5/\pi$ Hz
- $6/\pi$ Hz

36. 36) Equation of progressive wave is given by $y=4\sin[\pi(t/5 - x/9) + \pi/6]$ where y is in micron, x is in m, t is in second then which of the following is correct? 1 point

Mark only one oval.

- $V=5\text{m/s}$
- wavelength=18m
- $a=0.04$ cm
- $f=50\text{Hz}$

37. 37) Initial mass of a radioactive sample of half-life 6 hours is 0.8kg. The amount of sample left after 1 day (24 hours) is 1 point

Mark only one oval.

- 0
- 100 gm
- 200 gm
- 50 gm

38. 38) Germanium atom is to be doped with an acceptor impurity. The foreign atom should be: 1 point

Mark only one oval.

- Trivalent
- Pentavalent
- Tetravalent
- None of these

39. 39) The device which converts ac into dc is called 1 point

Mark only one oval.

- Rectifier
- Oscillator
- Amplifier
- Modulator

40. 40)A conductor and charging non-conductor when brought together 1 point

Mark only one oval.

- they attract each other
- they repel each other
- Nothing happen
- Charge transfer from conductor to non-conductor

41. 41)The potential barrier in the depletion layer is due to 1 point

Mark only one oval.

- Ions
- Electrons
- Holes
- Forbidden band

42. 42)In a semiconductor diode P-side is earthed and N-side is applied a potential of-2V the diode shall 1 point

Mark only one oval.

- Breakdown
- conduct partially
- conduct
- Not conduct

43. 43)In a semiconductor diode P-side is earthed and N-side is applied a potential of-2V the diode shall 1 point

Mark only one oval.

- Breakdown
- conduct partially
- conduct
- Not conduct

44. 44)In obtained an x-ray photograph of hand; we use principle of 1 point

Mark only one oval.

- Shadow photography
- Image formation by an optical system
- Photoelectric effect
- Ionisation

45. 45)An x-ray photon has a wavelength of 0.01 armstrong.Its momentum(in kg m/s) is 1 point

Mark only one oval.

- $6.6 \cdot 10^{-22}$
- $6.6 \cdot 10^{-32}$
- $3.3 \cdot 10^{-32}$
- 0

46. 46)The ratio of the charge to mass ratio of a proton to an α -particle equals: 1 point

Mark only one oval.

- 2
 1/2
 4
 1/4

47. 47) In PN junction diode direction of diffusion current 1 point

Mark only one oval.

- P-N
 N-P
 Depend on biasing
 None

48. 48)uud is quark combination of 1 point

Mark only one oval.

- Proton
 Neutron
 Electron
 None

49. 49)Universe is predominantly composed of 1 point

Mark only one oval.

- Dark matter
 Ordinary matter
 Dark Energy
 All

50. 50)Antiparticle of electron 1 point

Mark only one oval.

- Anti electron
 Positron
 Beta particle
 All of the above

CHEMISTRY

51. 51)An organic compound X(mol. formula $C_6H_5O_2N$) has six carbons in a ring system,three double bonds and also a nitro group as substituent.X is: 1 point

Mark only one oval.

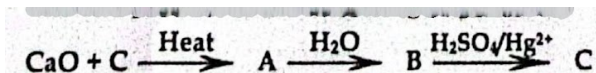
- Homocyclic but not aromatic
 Aromatic but not homocyclic
 Homocyclic and aromatic
 Heterocyclic

52. 52)The stabilization due to resonance is maximum in: 1 point

Mark only one oval.

- cyclohexane
 cyclohexene
 1,3-cyclohexadiene
 1,3,5-cyclohexatriene

53. 53)The end product of the following sequence is, 1 po



Mark only one oval.

- ethanol
 ethyl hydrogen sulphate
 acetaldehyde
 ethylene glycol

54. 54)Method of converting high boiling hydrocarbons into low boiling hydrocarbons is called: 1 point

Mark only one oval.

- Polymerization
 Isomerization
 Cracking
 Condensation

55. 55)An organic compound C₅H₁₀O forms phenyl hydrazone,gives positive iodoform test and undergoes Wolff kishner reaction to give isopentane.It is: 1 point

Mark only one oval.

- pentanol
 Pentan-2-ene
 Pentan-3-one
 3-methyl butan-2-one

56. 56)Which acid derivatives on hydrolysis will give brown precipitate with Nessler's reagent? 1 point

Mark only one oval.

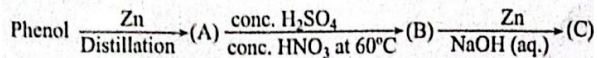
- Acid chloride
 Acid anhydride
 Acid amine
 All of these

57. 57)A diazonium salt reacts with phenol to give p-hydroxy azo benzene,a dye.The reaction is called: 1 point

Mark only one oval.

- Diazotisation
 Condensation
 Coupling
 Reduction

58. 58) In the reaction; The compound (A),(B) and (C) are the following: 1 po



Mark only one oval.

- benzene,nitrobenzene and aniline
- benzene,dinitrobenzene and m-nitroaniline
- toluene,m-nitrobenzene and m-toluidine
- benzene,nitrobenzene and hydrazobenzene
59. 59)Cyclopentadienyl anion is aromatic due to the present of: 1 point

Mark only one oval.

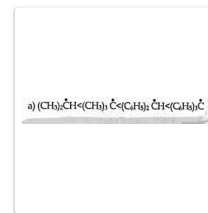
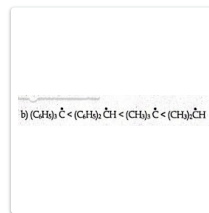
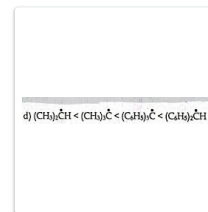
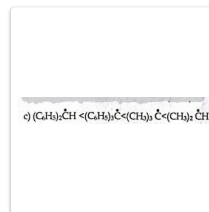
- 6 π -electrons
- 10 π -electrons
- 4 π -electrons
- 12 π -electrons
60. 60)What is the functional group of aldehydes? 1 point

Mark only one oval.

- OH
- COOH
- CHO
- C=O

61. 61)The increasing order of stability of the following free radicals is: 1 point

Mark only one oval.



62. 62) Pure CH₄ can be obtained by: 1 point

Mark only one oval.

- CH₃COONa+BaO
- HCOONa+NaOH
- CH₃COONa+Sodalime
- Electrolysis of HCOONa(aq)

63. 63) Which of the following reactions will yield 2,2-dibromopropane? 1 point

Mark only one oval.

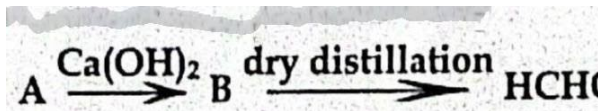
- $\text{CH}_3\text{-CH=CH}_2 + \text{HBr}$
- $\text{CH}_3\text{-C}\equiv\text{CH} + \text{HBr}$
- $\text{CH}_3\text{-CH=CHBr} + \text{HBr}$
- $\text{CH}\equiv\text{CH} + \text{HBr}$

64. 64) When HCHO is treated with $\text{C}_6\text{H}_5\text{CHO}$ in presence of NaOH, the products are: 1 point

Mark only one oval.

- CH_3OH and HCOOH
- $\text{C}_6\text{H}_5\text{CH}_2\text{OH}$ and $\text{C}_6\text{H}_5\text{COONa}$
- CH_2OH and $\text{C}_6\text{H}_5\text{COONa}$
- HCOONa and $\text{C}_6\text{H}_5\text{CH}_2\text{OH}$

65. 65) Identify A 1 point



Mark only one oval.

- Oxalic acid
- Formic acid
- Acetic acid
- Benzoic acid

66. 66) A primary amine heated with CS_2 in presence of excess of HgCl_2 gives isothiocyanate. The reaction is called: 1 point

Mark only one oval.

- Hofmann's bromamide reaction
- Hofmann's mustard oil reaction
- Perkin's condensation
- Hofmann's elimination

67. 67) Diazotisation can be carried out by the reaction of NaNO_2 and HCl on ice cold: 1 point

Mark only one oval.

- Aromatic secondary amine
- Aromatic primary amine
- Aromatic nitro compound
- Acid amide

68. 68) Natural rubber is a polymer of: 1 point

Mark only one oval.

- trans-isoprene
- cis-isoprene
- cis-and trans-isoprene
- None

69. 69) Pig iron: 1 point

Mark only one oval.

- Contains carbon and other impurities
- is pure form of iron
- is same as wrought iron
- is same as steel

70. 70) Duraluminium an alloy contains: 1 point

Mark only one oval.

- Mg+Al
- Mg+Cu+Al+Mn+Si
- Mg+Cu
- Cu+Al

71. 71) Among the C-X bond (where X=Cl, Br, I) the correct bond energy order is: 1 point

Mark only one oval.

- C-Cl > C-Br > C-I
- C-I > C-Cl > C-Br
- C-Br > C-Cl > C-I
- C-I > C-Br > C-Cl

72. 72) Oxygen is divalent, whereas sulphur exhibits valency of 2, 4 and 6 due to: 1 point

Mark only one oval.

- S is bigger atom
- Ionization potential of sulphur is more
- S being less electronegative than O
- Presence of d-orbitals in S

73. 73) Phosphorous is manufactured by heating... in a furnace 1 point

Mark only one oval.

- bone-ash, sodium chloride and coke
- bone-ash, silica and coke
- bone-ash, silica and lime
- bone-ash, coke and limestone

74. 74) Which of the following process is used in the extractive metallurgy of Mg? 1 point

Mark only one oval.

- fused salt electrolysis
- Self-reduction
- Aqueous solution electrolysis
- Thermite reduction

75. 75) Calculate mass of water having the same no. of Hydrogen atom as are that in 32g of methane? 1 point

Mark only one oval.

- 72g
 32g
 64g
 100g

76. 76) 34.2g of sucrose ($C_{12}H_{22}O_{11}$) is dissolved in 180g of Water. Calculate the no. of oxygen atom in the solution (where NA is avogadro no.) 1 point

Mark only one oval.

- 10.1NA
 11.1NA
 9.5NA
 None

77. 77) The total no. of valence electron in 4.2g of N_3^- ion is: 1 point

Mark only one oval.

- 2.4NA
 3.4NA
 1.4NA
 0.5NA

78. 78) A p-orbital can accommodate: 1 point

Mark only one oval.

- 4 electrons
 6 electrons
 2 electrons with parallel spins
 2 electrons with opposite spin

79. 79) Which is the correct statement in case of milk? 1 point

Mark only one oval.

- Milk is an emulsion of fat in water
 Milk is an emulsion of protein in water
 Milk is stabilized by protein
 Milk is stabilized by fat

80. 80) The oxidation number of carbon in pyrene is: 1 point

Mark only one oval.

- 2
 +2
 Zero
 +4

81. 81)The pair of species having identical shape for molecules of both species is: 1 point

Mark only one oval.

- BF₃,PCl₃
- PF₅,IF₅
- CF₄,SF₄
- XeF₂,CO₂

82. 82)Bond angle is minimum for 1 point

Mark only one oval.

- H₂O
- H₂S
- H₂Se
- H₂Te

83. 83)Chromatography is based on 1 point

Mark only one oval.

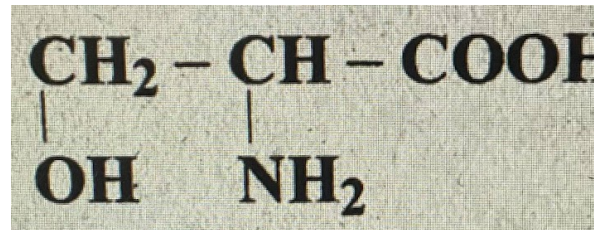
- Absorption
- Solubility
- Colour change
- Selective adsorption

84. 84)1st Scientist which have received nobel prize in chemistry? 1 point

Mark only one oval.

- Jacobus Henricus van 't Hoff
- Lavoisier
- Lewnhoeck
- None

85. 85)The IUPAC name of this compound? 1 po



Mark only one oval.

- 2-Amino-3-hydroxypropanoic acid
- 1-Hydroxy-2-aminopropan-3-oic acid
- 1-Amino-2-hydroxypropanoic acid
- 3-Hydroxy-2-aminopropanoic acid

86. 86) The shape of gaseous SnCl_2 is

1 point

Mark only one oval.

- angular
- linear
- tetrahedral
- T-shaped

87. 87) The approx radius of nucleus of CU in fermi is

1 point

Mark only one oval.

- 3
- 4
- 4.5
- 6

88. 88) Among the alkaline earth metals the element forming predominantly covalent compound is

1 point

Mark only one oval.

- Be
- Mg
- Sr
- Ca

89. 89) Radioactivity 1 disintegration per second is equivalent to

1 point

Mark only one oval.

- 3×10^{20} curie
- 1 Becquerel
- 10^6 rutherford
- 10^6 Becquerel

90. 90) The hydrolysis of the addition product of acetone and methyl magnesium iodide gives...

1 point

Mark only one oval.

- ethyl alcohol
- isopropyl alcohol
- tert-Butyl alcohol
- phenol

91. 91) Which of the following compound is yielded from the reduction of nitroalkanes?

1 point

Mark only one oval.

- Amine
- Acid
- Diazo compounds
- Alcohol

92. 92) Which among the following gases is most readily soluble in water under ordinary conditions? 1 point

Mark only one oval.

- NH₃
- CO₂
- H₂S
- N₂

93. 93) Calculate the pH of buffer solution containing 0.02 moles of NH₄Cl and 0.2 moles of NH₄OH per litre (Given pK_b=5). 1 point

Mark only one oval.

- 9
- 10
- 11
- 12

94. 94) Four metal A, B, C and D have standard reduction electric potential as -3V, -2V, 0V and 1V. The metal that will be most reducing is: 1 point

Mark only one oval.

- A
- B
- C
- D

95. 95) Rutherford's experiment of alpha-particles showed for the first time that atom has 1 point

Mark only one oval.

- Protons
- Neutrons
- Nucleus
- Electrons

96. 96) In the reaction, 1 point
- $$4\text{NH}_3(\text{g}) + 5\text{O}_2(\text{g}) \rightarrow 4\text{NO}(\text{g}) + 6\text{H}_2\text{O}(\text{l})$$
- When 1 mole of ammonia and 1 mole of O₂ are made to react to completion:

Mark only one oval.

- All the oxygen will be consumed.
- 1.0 mole of NO will be produced
- 1.0 mole of H₂O is produced
- All the ammonia will be consumed

97. 97) Gradual addition of electronic shells in the noble gases causes a decrease in their 1 point

Mark only one oval.

- ionization energy
- atomic radius
- Boiling point
- Density

98. 98)An example of a salt that will not hydrolyse is 1 point

Mark only one oval.

- NH₄CL
- KCL
- CH₃COONH₄
- CH₃COOK

99. 99)Two immiscible liquid are separated by 1 point

Mark only one oval.

- Fractional distillation
- Separating funnel
- Sublimation
- Chromatography

100. 100)The law which states that a compound always contains the same elements combined in a fixed ratio by mass is called the law of 1 point

Mark only one oval.

- Law of definite proportions
- Law of multiple proportions
- Law of conservation of mass
- None of the above

BOTANY

101. 101)In kingdom system of classification given by RH WHITTAKER, eukaryots are assigned to? 1 point

Mark only one oval.

- 5 kingdom
- 4 kingdom
- 3 kingdom
- 2 kingdom

102. 102)Which of the following is the living property of the virus? 1 point

Mark only one oval.

- Contains either DNA or RNA
- Host Specific
- Can mutate
- Obligate Parasite

103. 103)The bacteria normally living in human gut is E.Coli. Which of the following relationship is shown by E.Coli on human gut? 1 point

Mark only one oval.

- Symbiotic relationship
- Commensalism relationship
- Ammensalism relationship
- Parasitic relationship

104. 104) Which of the following is an example of reproduction without multiplication in a bacteria? 1 point

Mark only one oval.

- Endospore formation
- Transduction
- Transformation
- Conjugation

105. 105) Which of the following is 1st oxygen evolver on earth? 1 point

Mark only one oval.

- Archaeobacteria
- Bacteria
- Cyanobacteria
- None

106. 106) The first antibiotic by sir Alexander Flemming was produced from the fungi. The commercial production of that antibiotic is now done from which of the following fungus? 1 point

Mark only one oval.

- Penicillium notatum
- Penicillium chrysogenum
- Penicillium griseofulvum
- Aspergillus Clavatus

107. 107) One gemma produces how many thallus of Marchantia? 1 point

Mark only one oval.

- One thallus
- Two thallus
- Three thallus
- Four thallus

108. 108) Sexual reproduction in Spirogyra usually occurs in unfavourable condition. The gametes produced in Spirogyra are 1 point

Mark only one oval.

- Motile and Non flagellated
- Non motile and Non flagellated
- Motile and Flagellated
- None

109. 109) Male gamete in fern is? 1 point

Mark only one oval.

- Biflagellated
- Uniflagellated
- Multiflagellated
- None

110. 110)Endosperm of gymnosperm is?

1 point

Mark only one oval.

- Haploid
- Diploid
- Triploid
- Tetraploid

111. 111)Most superior ovary is found in which of the following condition of ovary related to thalamus?

1 point

Mark only one oval.

- Perigynous
- Epigynous
- Hypogynous
- None

112. 112)Which of the following pollination is true cross pollination?

1 point

Mark only one oval.

- Autogamy
- Geitonogamy
- Xenogamy
- Hybridism

113. 113)Which of the following is primary decomposer of ecosystem?

1 point

Mark only one oval.

- Fungi
- Bacteria
- Euglena
- Vulture

114. 114)Submerged hydrophytes exchange of gases occurs through?

1 point

Mark only one oval.

- Stomata
- Hydathodes
- Lenticles
- General body surface

115. 115)Which of the following interaction is important for ecosystem sustainability?

1 point

Mark only one oval.

- Mutualism
- Commensalism
- Parasitism
- Predation

116. 116) Which law explains the loss of energy as heat during trophic transfer? 1 point

Mark only one oval.

- First law
- Second law
- Law of limiting factors
- Law of minimum

117. 117) maximum precipitation is seen in which of the following forest? 1 point

Mark only one oval.

- Tropical forest
- Tropical rain forest
- Temperate forest
- Alpine region forest

118. 118) Cell lineage theory or modern cell theory states: 1 point

Mark only one oval.

- Omnis cellula o cellulo
- Omnis cellulae O cellulo
- Omnis cellula e cellula
- Cellula Omnis O cellulo

119. 119) Common in prokaryotes and eukaryotes: 1 point

Mark only one oval.

- Nucleus
- Nucleolus
- Ribosome
- Mitochondria

120. 120) Person suffering from sickle cell anemia is 1 point

Mark only one oval.

- more prone to typhoid
- more prone to malaria
- less prone to typhoid
- less prone to malaria

121. 121) Arrangement of cilia and flagella in eukaryotes: 1 point

Mark only one oval.

- 9+2
- 9+0
- 9+1
- 9+3

122. 122) Which chromosome has centromere at center?

1 point

Mark only one oval.

- metacentric
- sub-metacentric
- telocentric
- acrocentric

123. 123)What is the smallest living cell?

1 point

Mark only one oval.

- Sperm cell
- Ova
- Bacteria
- Mycoplasma

124. 124)Which of the following is respiration in eukaryotic cell?

1 point

Mark only one oval.

- Mitochondria
- Mesosome
- Both
- None

125. 125)Function of nucleolus is:

1 point

Mark only one oval.

- Replication of DNA
- Formation of ribosome
- Replication of RNA
- Nuclear division

126. 126)The mutation of the type in which a part or the complete genes is removed from the genome is called

1 point

Mark only one oval.

- Deletion
- Inversion
- Duplication
- Translocation

127. 127)Hydrogen bonds between cytosine and Guanine are:

1 point

Mark only one oval.

- 1
- 2
- 3
- 4

128. 128) Adenine is 30% then, what would be the % of Guanine?

1 point

Mark only one oval.

- 10%
- 20%
- 30%
- 40%

129. 129) One gene one enzyme concept is given by

1 point

Mark only one oval.

- Lederberg and Tatum
- Zinder and Lederberg
- Beadle and Tatum
- Kornberg and Tatum

130. 130) Family has 9 girls, Probability of son at 10th birth is

1 point

Mark only one oval.

- 50%
- 100%
- 25%
- 75%

131. 131) Cryopreservation is done at:

1 point

Mark only one oval.

- 140 degree celsius
- 130 degree celsius
- 196 degree celsius
- 273 degree celsius

132. 132) Emasculation is:

1 point

Mark only one oval.

- Removal of male reproductive part of a flower
- Removal of female reproductive part of flower
- Method of anti bacterial culture
- None of above

133. 133) Reserpine is a drug extracted from

1 point

Mark only one oval.

- Rauwolfia serpentina
- Atropa belladonna
- Digitalis purpurea
- Wolfia microspora

134. 134) Which of the following phytohormones induced female flowers in plants? 1 point

Mark only one oval.

- Ethylene
- Cytokinin
- Gibberlin
- Abscissic acid

135. 135) 5 carbon compounds formed in krebs cycle that determines amphibolic nature of Krebs cycle is? 1 point

Mark only one oval.

- Citric acid
- Oxalo acetic acid
- Alpha ketoglutaric acid
- Succinyl COA

136. 136) Dimorphic chloroplast are the characteristic of: 1 point

Mark only one oval.

- C3 plants
- C4 plants
- CAM plants
- Xerophytes

137. 137) Interfascicular cambium is an example of 1 point

Mark only one oval.

- Promeristem
- Primary meristem
- Secondary meristem
- None

138. 138) Primitive component of Xylem present in pteridophyte and gymnosperm helping for conduction of water and minerals is? 1 point

Mark only one oval.

- Vessels
- Tracheids
- Sieve cells
- Sieve tube

139. 139) Intercalary meristem is derived from: 1 point

Mark only one oval.

- Promeristem
- Apical meristem
- Lateral meristem
- Secondary meristem

140. 140)The tRNA anticodon 3'-GAA-5' will pair with which mRNA codon? 1 point

Mark only one oval.

- 5'-CUU-3'
- 5'-GAA-3'
- 5'-CUC-3'
- 3'-CUU-5'

ZOOLOGY

141. 141)Louis pasteur's experiment with swan-necked flasks disproved which of the following theories? 1 point

Mark only one oval.

- Special creation
- Spontaneous Generation
- Chemical Evolution
- Biogenesis

142. 142)Which fossils is known as "APE MAN"? 1 point

Mark only one oval.

- Homo habilis
- Homo sapiens
- Australopithecus
- Dryopithecus

143. 143)Which of the following is the best definition of natural selection? 1 point

Mark only one oval.

- The process by which individuals choose their mates based on physical appearance
- The survival and reproduction of individuals due to differences in phenotype
- The rapid mutation of DNA in response to environmental stress
- The movement of individual from one population to another

144. 144)Which organ is considered as vestigial organ? 1 point

Mark only one oval.

- pancreas
- thymus
- Thyroid
- Vermiform appendix

145. 145)Flame cells are the excretory structures of: 1 point

Mark only one oval.

- Annelida
- Platyhelminthes
- Arthropoda
- Mollusca

146. 146) Radial symmetry and diploblastic organization are seen in 1 point

Mark only one oval.

- Porifera
 Cnidaria
 Annelida
 Echinodermata

147. 147) Water vascular system is characteristic of 1 point

Mark only one oval.

- Arthropoda
 Mollusca
 Echinodermata
 Annelida

148. 148) Metameric segmentation is best developed in: 1 point

Mark only one oval.

- Platyhelminthes
 Annelidas
 Echinodermata
 Annelida

149. 149) Open Circulatory system occurs in: 1 point

Mark only one oval.

- Annelida
 Arthropoda
 Chordata
 Platyhelminthes

150. 150) Presence of notochord is a feature of: 1 point

Mark only one oval.

- Non-chordates
 Protochordates only
 All chordates
 Vertebrates only

151. 151) Comb plates are found in: 1 point

Mark only one oval.

- Porifera
 Cnidaria
 Ctenophora
 Platyhelminthes

152. 152)Which phylum shows intracellular digestion? 1 point

Mark only one oval.

- Annelida
- Arthropoda
- Porifera
- Mollusca

153. 153)The infective stage of plasmodium for humans is: 1 point

Mark only one oval.

- Merozoite
- Sporozoite
- Gametocyte
- Ookinete

154. 154)The correct sequence of stages in the erythrocytic cycle of Plasmodium is: 1 point

Mark only one oval.

- Schizont–Trophozoite–Signet ring stage–Merozoite
- Gametocyte–Schizont–Trophozoite–Signet ring stage
- Sporozoite–Merozoite–Schizont–Trophozoite
- Trophozoite–Signet ring stage–Amoeboid stage–Schizont

155. 155)Earthworm possess a 'closed' circulatory system.Which of the following vessels carries blood from the posterior to the anterior end of the body and acts as the 'Heart'?

Mark only one oval.

- Lateral esophageal vessels
- Dorsal blood vessel
- Sub-neural vessel
- Ventral blood vessel

156. 156)In the digestive system of the earthworm,the 'Gizzard' is a highly muscular organ used for grinding food.In which segments is it typically located? 1 point

Mark only one oval.

- Segments 5-7
- Segments 15-26
- Segments 8-9
- Segments 1-3

157. 157)Frog heart is 1 point

Mark only one oval.

- Two-Chambered
- Three-chambered
- Four-chambered
- Five-Chambered

158. 158)Which structure in the male frog's reproductive system is responsible for conducting both sperm and urine? 1 point

Mark only one oval.

- Ureter
- Bidder's canal
- Vasa efferentia
- Oviduct

159. 159)Frogs have a well-developed nervous system.How many pairs of cranial nerves originate from the frog's brain? 1 point

Mark only one oval.

- 31 pairs
- 10 pairs
- 8 pairs
- 12 pairs

160. 160)Respiration in earthworm occurs through: 1 point

Mark only one oval.

- Gills
- Lungs
- Moist skin
- Trachea

161. 161)Streamlined body of fishes is an adaptation for: 1 point

Mark only one oval.

- Respiration
- Buoyancy
- Reducing water resistance
- Protection

162. 162)Bio-magnification refers to: 1 point

Mark only one oval.

- Breakdown of pollutants
- Accumulation of pollutants at higher trophic levels
- Recycling of nutrients
- Increase in population size

163. 163)The fallopian tubes and bronchioles are lined by which specialized epithelial tissue to facilitate the movement of particles? 1 point

Mark only one oval.

- Glandular epithelium
- Squamous epithelium
- Ciliated epithelium
- Brush-bordered cuboidal epithelium

164. 164)Which of the following cells found in connective tissue are responsible for the secretion of heparin,histamine and serotonin? 1 point

Mark only one oval.

- Mast cells
- Macrophages
- Adipocytes
- Fibroblasts

165. 165)Cartilage differs from bone in that its matrix is: 1 point

Mark only one oval.

- Fluid and lacking in fibers
- Composed primarily of adipose cells
- Solid and pliable due to chondroitin salts
- Hard and non-pliable due to calcium salts

166. 166)Which of the following is characteristic of cardiac Muscle tissue? 1 point

Mark only one oval.

- Attached primarily to skeletal bones
- Voluntary control and multi-nucleated fibers
- Spindle-shaped cells without striations
- Branched fibers with intercalated disc

167. 167)Which of the following cells in the gastric glands are responsible for the secretion of intrinsic factor,essential for the absorption of Vitamin B12? 1 point

Mark only one oval.

- Peptic(Chief)Cells
- Goblet cells
- Oxyntic (parietal)Cells
- Argentaffin cells

168. 168)What is the primary form in which carbon Dioxide(CO2) is transported in the blood? 1 point

Mark only one oval.

- As carbamino-hemoglobin
- As Carboxyhemoglobin
- As Bicarbonate ions
- Dissolved in plasma

169. 169)In the human heart, the 'bundle of His' originates from which structure and passes into the interventricular septum? 1 point

Mark only one oval.

- Purkinje fibers
- SA Node
- Papillary muscles
- AV Node

170. 170)Which part of the nephron is the primary site for the 'Obligatory' reabsorption of nearly all essential nutrients and 70-80% of electrolytes and water? 1 point

Mark only one oval.

- Loop of Henle
- Proximal convoluted Tubule(PCT)
- Distal Convoluted Tubule(DCT)
- Collecting Duct

171. 171)Which type of joint allows for the most movement and is found between the humerus and pectoral girdle? 1 point

Mark only one oval.

- Hinge joint
- Pivot joint
- Ball and socket joint
- Gliding joint

172. 172)In a resting neuron, the axonal membrane is comparatively more permeable to which ion, contributing to the Resting Membrane Potential? 1 point

Mark only one oval.

- Sodium ions
- potassium ions
- Calcium ions
- Chloride ions

173. 173)In the human female, "Ovulation" is specifically triggered by a surge in the concentration of which hormone? 1 point

Mark only one oval.

- Estrogen
- Progesterone
- FSH
- LH

174. 174)In the human heart,the "Chordae Tendineae" are anatomical structures that perform which vital function? 1 point

Mark only one oval.

- Initiating the heartbeat
- Pumping blood into the aorta
- Preventing the AV valves from eversion
- Opening the semilunar valves

175. 175)Anatomically, the "Corpus callosum" is a critical structure found in the human brain. What is its primary composition and location? 1 point

Mark only one oval.

- Gray matter connecting the cerebellum and medulla
- White matter connecting the two cerebral hemispheres
- A fluid-filled cavity within the midbrain
- Glandular tissue in the hypothalamus

176. 176)A person (>55 years) cannot see the near objects, the defect is 1 point

Mark only one oval.

- Conjunctivitis
- Hypermetropia
- Presbyopia
- Astigmatism

177. 177)The malformation of which of the following causes hyperglycemia in blood 1 point

Mark only one oval.

- Parathroid hormone
- Insulin
- Adrenaline
- Throxine

178. 178)The BCG(Bacillus calmette- Guerin) vaccine is used globally to provide protection against Tuberculosis. What type of vaccine is it? 1 point

Mark only one oval.

- Toxoid Vaccine
- Killed/Inactivated vaccine
- Live attenuated vaccine
- Recombinant DNA vaccine

179. 179)Cannabionoids,obtained from the Cannabis sativa plant, are known for their primary effect on which human body system? 1 point

Mark only one oval.

- Digestive system
- Excretory system
- Cardiovascular system
- Endocrine system

180. 180)Which cells located within the seminiferous tubules are responsible for providing nutrition to the germ cells during spermatogenesis? 1 point

Mark only one oval.

- Leydig cells
- Interstitial cells
- Sertoli cells
- Spermatogonia

MATT

181. 181)A and B can do piece of work in 45 days and 40 days respectively. They began to do the work together but A leaves after some days and then B completed the remaining work in 23 days. The number of days in which total work is completed? 1 point

Mark only one oval.

- 20
- 32
- 24
- 26

182. 182)Rearrange the letters in 'JIIBEGN' to form the name of a capital city of an Asian country. 1 point

Mark only one oval.

- Kathmandu
- Delhi
- Beijing
- Dhaka

183. 183)Sam ranked ninth from the top and thirty-eighth from the bottom in a class.How many students are there in the class? 1 point

Mark only one oval.

- 45
- 46
- 47
- 48

184. 184)Showing a lady in the park, Ashok said,'She is the daughter of my grandfather's only son'. How is Ashok related to that lady? 1 point

Mark only one oval.

- Brother
- Cousin
- Father
- Uncle

185. 185)Choose the word which best expresses the meaning of the capitalized word:Quota 1 point

Mark only one oval.

- Quotation
- Quote
- Limited number
- Unlimited quantity

186. 186) A and B together can complete a work in 12 days. If B does the work only for half a day daily, then in how many days A and B together will complete the work? 1 point

Mark only one oval.

- 10 days
- 11 days
- 15 days
- 20 days

187. 187)When two dice are thrown simulataneously, What is the probability that the sum of numbers appeared is an odd number? 1 point

Mark only one oval.

- 1/4
- 1/2
- 3/4
- 1

188. 188)In how many ways can 15 different books be divided equally among 5 sets or groups? 1 point

Mark only one oval.

- 4104100
- 1401400
- 1041040
- 1201200

189. 189)The average age of a group of 15 students is 10 years.When 5 more students joined the group, the average got increased by 1 year. The average age of the 5 new students is 1 point

Mark only one oval.

- 18 years
- 16 years
- 14 years
- 12 years

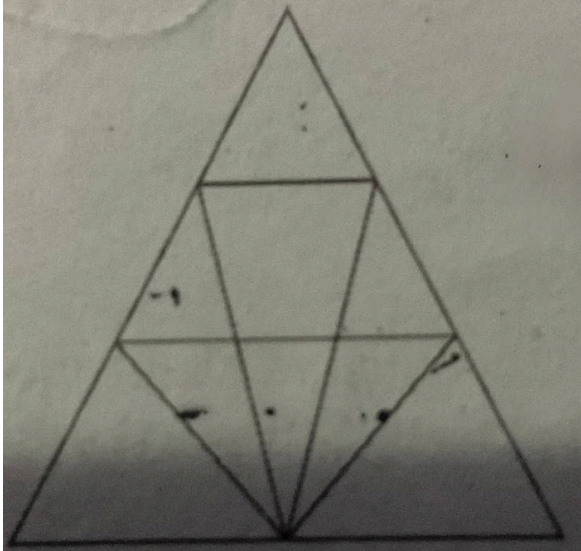
190. 190)Raju's father is 24 years elder than Raju. In 2 years, his father will be thrice than him then the present age of Raju is 1 point

Mark only one oval.

- 8 Y
- 10 Y
- 12 Y
- 14 Y

191. 191) Find the number of triangles in the given figure.

1 f

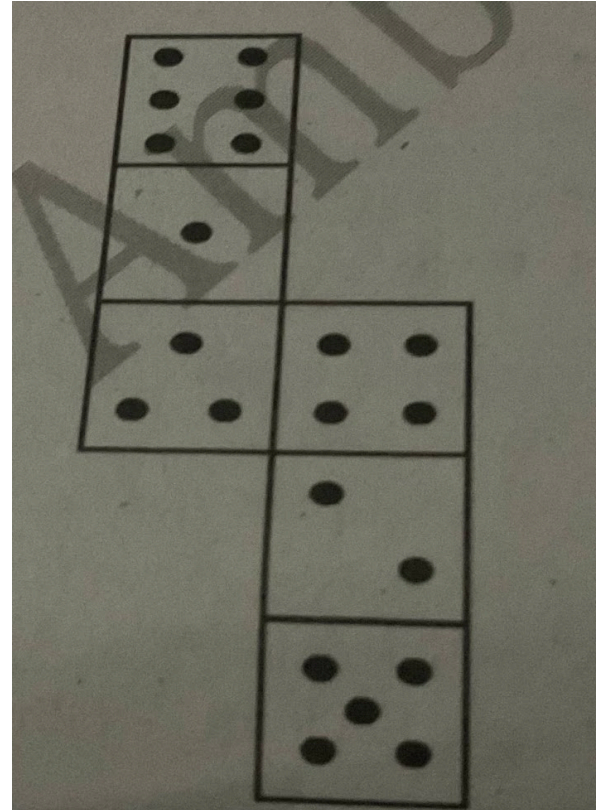


Mark only one oval.

- 12
- 18
- 22
- 26

192. 192) How many dots lie opposite to the face having three dots, when the given figure is folded to form cube?

1 f



Mark only one oval.

- 2
- 4

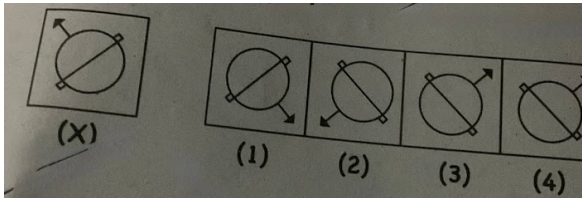
- 5
- 6

193. 193) Choose the correct alternative which represent the same relationship as first two bears. 1 point
16:35::24:?

Mark only one oval.

- 50
- 36
- 12
- 30

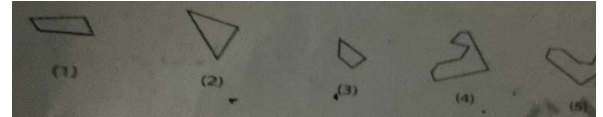
194. 194) Choose the correct mirror image of the given figure from amongst the four alternatives. 1 point



Mark only one oval.

- 1
- 2
- 3
- 4

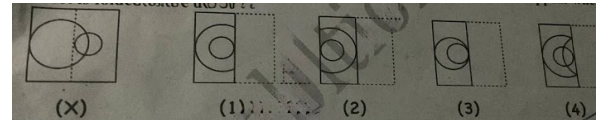
195. 195) Select the alternative which represents three out of the five alternatives figures which when fitted into each other would form a complete square. 1 point



Mark only one oval.

- 123
- 345
- 245
- 234

196. 196) Find out from amongst the four alternatives as to how the pattern would appear when the transparent sheet is folded at the dotted line. 1 point



Mark only one oval.

- 1
- 2
- 3
- 4

197. 197)Accident:Injury:Pain

1 point

Mark only one oval.

- Darkness:Lamp:work
- Evaporation:Cloud:rain
- Fatigue:Exercise:Rest
- Thirst:Water:Happy

198. 198)Find the odd one out
5 10 13 20 29

1 point

Mark only one oval.

- 13
- 20
- 10
- 29

199. 199)D_4,F_6,H_8,J_10,?,?

1 point

Mark only one oval.

- K_12,M_13
- L_12,M_14
- L_12,N_14
- K_12,M_14

200. 200)If English alphabets are written in reverse order, What will be the 4th letter to the right of the 13th letter from the left? 1 point

Mark only one oval.

- J
- L
- K
- M

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