

Set - 9 Full Length Test - 2026

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1 - 50 -> Physics

51 - 100 -> Chemistry

101 - 140 -> Botany

141 - 180 -> Zoology

181 - 200 -> MAT

* Indicates required question

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PHYSICS

1. 1) The equation of trajectory for a projectile thrown at certain angle from earth surface is $y = ax - bx^2$. The maximum vertical height reached by the projectile is 1 point

Mark only one oval.

$a^2/2b$

$a^2/4b$

$a/4b$

$b^2/4a$

2. 2) Two vectors 3P and 2P have resultant R. If first vector is doubled then resultant is also doubled. Then angle between those vector will be 1 point

Mark only one oval.

60°

90°

120°

180°

3. 3) The dimensions of coefficient of viscosity are 1 point

Mark only one oval.

$ML^{-1}T^{-1}$

ML^2T^{-1}

ML^2T^{-2}

MLT

4. 4)A box is lying on the inclined plane. What is the coefficient of static friction if the box starts sliding when an angle of inclination is 60° ? 1 point

Mark only one oval.

- $\sqrt{3}$
- $\sqrt{2}$
- $2/\sqrt{3}$
- $\sqrt{3}/2$

5. 5)A stone is dropped from the top of a tower. If it covers 24.5m in the last second of its motion. The height of the tower is 1 point

Mark only one oval.

- 44.1 m
- 49m
- 78.4m
- 72m

6. 6)The moment of inertia of a body does not depend upon 1 point

Mark only one oval.

- The angular velocity of the body
- The mass of the body
- The distribution of mass in the body
- The axis of rotation of the body

7. 7)If V_e and V_o represent the escape velocity and orbital velocity of a satellite corresponding to a circular orbit of radius R , then 1 point

Mark only one oval.

- $V_e = V_o$
- $V_e = \sqrt{2} V_o$
- $V_e = V_o/\sqrt{2}$
- None

8. 8)A pendulum clock giving correct time at earth is taken to moon. Then it 1 point

Mark only one oval.

- Becomes fast
- Becomes slow
- Remains unaffected
- stops

9. 9)Two soap bubbles each with a radius r coalesce in vacuum under isothermal condition to form a bigger bubble of radius R . Then R is equal to 1 point

Mark only one oval.

- $2^{1/2}r$
- $2^{1/3}r$
- $2^{1/2}r$
- $2r$

10. 10)A man is sitting in a boat which is floating in water in a pond. If the man drinks some water from the pond, the level of the water in the pond 1 point

Mark only one oval.

- Decrease
- increase
- Remains unchanged
- may decrease or increase depending on the weight of man

11. 11)The pressure of hydrogen gas in a constant volume gas thermometer is 80cm at 0°C, 110 cm at 100°C and 95cm at unknown temperature t . Then t is equal to 1 point

Mark only one oval.

- 50°C
- 75°C
- 95°C
- 150°C

12. 12)For an ideal gas, in an isothermal process 1 point

Mark only one oval.

- Heat content remains constant
- Heat content & temperature remain constant
- Temperature remains constant
- None of these

13. 13)When heat is given to a gas in an isobaric process, then 1 point

Mark only one oval.

- The work is done by the gas
- Internal energy of the gas increases
- Both a and b
- None

14. 14)Which of the following gases possess maximum K.E. at a given temperature 1 point

Mark only one oval.

- Hydrogen
- Nitrogen
- Oxygen
- All have same KE

15. 15)Heat required to convert 1gm of ice at 0°C into steam at 100°C is 1 point

Mark only one oval.

- 100cal
- 0.01 cal
- 716cal
- 1 k cal

16. 16) Two stars A and B radiate maximum energy at 3600 A° and 4800 A° respectively. Then the ratio of absolute temperatures of A and B is 1 point

Mark only one oval.

- 4:3
- 3:4
- 81:256
- 256:81

17. 17) The critical angle is that angle of incidence in the denser medium for which the angle of refraction in rarer medium is 1 point

Mark only one oval.

- 0°
- 57°
- 90°
- 180°

18. 18) Optical fibres may be used 1 point

Mark only one oval.

- To transmit signal with appreciable loss of energy
- To transmit signal without appreciable loss of energy
- To store solar energy
- None of these

19. 19) The lens has focal length f . If half of the body of lens is covered with black paper, then its focal length becomes 1 point

Mark only one oval.

- f
- $2f$
- $f/2$
- $4f$

20. 20) Monochromatic light is refracted from air into the glass of refractive index μ . The ratio of the wavelength of incident and refracted wave is 1 point

Mark only one oval.

- $1:\mu$
- $1:\mu^2$
- $\mu:1$
- $1:1$

21. 21) A convex lens forms a real image 8 cm long on a screen. Without altering the position of the object and screen. The lens is displaced through certain distance and 2 cm long real image is formed on the screen. Then length of the object is 1 point

Mark only one oval.

- 5 cm
- 4.8 cm
- 4 cm
- 3.6 cm

22. 22)The tip of needle does not give a sharp image on the screen. This is due to 1 point

Mark only one oval.

- Polarisation
- Interference
- Diffraction
- Refraction

23. 23)The length of a closed organ pipe is l . If velocity of sound is v , then the frequency of its fundamental note is 1 point

Mark only one oval.

- v/l
- $v/2l$
- $v/4l$
- $2v/l$

24. 24)A tuning fork A of frequency 200Hz is sounded with fork B , the number of beats per second is 5 . By putting some wax on A, the number of beats increases to 8, the frequency of fork B is 1 point

Mark only one oval.

- 200 Hz
- 195Hz
- 192Hz
- 205Hz

25. 25)The length of the closed pipe where frequency is equal to that of open pipe of 60 cm length is 1 point

Mark only one oval.

- 15cm
- 120cm
- 180cm
- 30cm

26. 26)When a body is charged by induction , then the body 1 point

Mark only one oval.

- Loses some part of charge on it
- loses whole of charge on it
- Does not loss any charge
- None of these

27. 27)The electric field intensity at the surface of a charged conductor is 1 point

Mark only one oval.

- Zero
- Directed normally to the surface
- Directed tangentially to the surface
- Directed along 45° to the surface

28. 28) To a given capacitor, another capacitance is connected in parallel to. 1 point

Mark only one oval.

- Increase the capacitance
- Decrease the capacitance
- Improve performance
- Increase the active line

29. 29) The alloys constantan and manganin are used to make standard resistance due to they have 1 point

Mark only one oval.

- Low resistivity
- High resistivity
- Low temperature coefficient of resistance
- both b and c

30. 30) An electric wire of length 'l' and area of cross-section 'a' has resistance 'R' ohms. Another wire of the same material having same length and area of cross-section '4a' has a resistance of 1 point

Mark only one oval.

- 4R
- R/4
- R/16
- 16R

31. 31) Two resistances R & 2R are connected in series in an electrical circuit. The ratio of heat in 2R to that in R is 1 point

Mark only one oval.

- 2:1
- 4:1
- 1:2
- 1:4

32. 32) For a thermocouple, the temperature of inversion is that temperature at which thermo emf is. 1 point

Mark only one oval.

- Zero
- Maximum
- Minimum
- None

33. 33) The magnetic field inside a solenoid is 1 point

Mark only one oval.

- Directly proportional to its length
- Directly proportional to its current
- Inversely proportional to the total number of turns
- Inversely proportional to current

34. 34)The magnetization of a bar magnet of length $5 \times 10^{-2} \text{m}$ and cross sectional area of 10^{-4}m^2 is if magnetic moment is 0.9 Am^2 1 point

Mark only one oval.

- $1.8 \times 10^5 \text{ A/m}$
- $1.6 \times 10^5 \text{ A/m}$
- $1.2 \times 10^5 \text{ A/m}$
- $1.9 \times 10^5 \text{ A/m}$

35. 35)A long magnetic needle of length $2L$ magnetic moment M and pole strength m units is broken into two at the middle. The magnetic moment and pole strength of each piece will be 1 point

Mark only one oval.

- $M/2, m/2$
- $M, m/2$
- $M/2, m$
- M, m

36. 36)The current passing through the choke coil of 5 Henry is decreasing at the rate of 2 Ampere / sec . The emf developing across the coil is 1 point

Mark only one oval.

- 10V
- 10V
- 2.5V
- 2.5 V

37. 37)In a pure inductive circuit, the current 1 point

Mark only one oval.

- Lags behind the applied e.m.f by an angle π
- Lags behind the applied e.m.f. by an angle $\pi/2$
- Leads the applied e.m.f. by an angle $\pi/2$
- Current and applied e.m.f. are in same phase

38. 38)When the speed of electron increases, then the value of its specific charge 1 point

Mark only one oval.

- Increases
- Decreases
- Remains unchanged
- Increase upto some velocity & then decrease

39. 39)A proton and an α - particle are injected into a uniform magnetic field at right angles to the direction of field with equal linear momenta. Then ratio of radii of their circular paths in the field will be 1 point

Mark only one oval.

- 1:1
- 2:1
- 1:2
- $\sqrt{2}:1$

40. 40)The maximum K.E. of photoelectrons emitted from surface when the photons of energy 5.6 eV falls on it is 4eV. The stopping potential in volts is

1 point

Mark only one oval.

- 4V
- 1.6 V
- 3.2 V
- 9.6 V

41. 41)The penetrating power of X-rays increases with the

1 point

Mark only one oval.

- Increase in its velocity
- Decrease in its velocity
- Increase in its frequency
- Increase in its intensity

42. 42)The radius of electron's second stationary orbit in Bohr's atom is R. The radius of the third orbit will be

1 point

Mark only one oval.

- 3R
- 2.25R
- 9R
- R/3

43. 43)In a reactor, the control rods are made of

1 point

Mark only one oval.

- Cadmium
- Graphite
- Helium
- Heavy water

44. 44)Barrier potential of a P.N. junction diode does not depend on

1 point

Mark only one oval.

- Temperature
- Forward bias
- Doping density
- Diode design

45. 45)Function of rectifier is

1 point

Mark only one oval.

- To convert A.C. into D.C.
- To convert D.C. into A.C.
- Both (a) & (b)
- None of these

46. 46) A transistor has a $\alpha\beta=0.95$, then β is

1 point

Mark only one oval.

- 0.95
- 1.5
- 19
- 1/19

47. 47) The activity of a radioactive substance becomes (1/16) of its initial value in 4 hours. The half-life of the radioactive substance is

1 point

Mark only one oval.

- 1 hr
- 2 hrs
- 4hrs
- 8 hrs

48. 48) Which quarks form a neutron?

1 point

Mark only one oval.

- Uud
- ddd
- UUU
- Udd

49. 49) Two inputs of NAND gates are shorted. This gate is equivalent to

1 point

Mark only one oval.

- OR gate
- AND gate
- NOT gate
- XOR gate

50. 50) Which of the following is indicated by the colour of a star

1 point

Mark only one oval.

- Weight
- Distance
- Temperature
- Size

CHEMISTRY

51. 51) Assuming the velocity to be same, the wavelength of the waves associated with which of the following particles would be maximum?

1 point

Mark only one oval.

- An electron
- A proton
- An α -particle
- A deuteron

52. 52) One mL of hydrogen gas at NTP contains:

1 point

Mark only one oval.

- 2.64×10^{19} atom
- 0.53×10^{20} atom
- 6×10^{23} atom
- 1.67×10^{24} atom

53. 53) 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

54. 54) The species undergoing reduction in the following reaction is $Cr + 2H_2O + OCl^- \rightarrow Cr^{3+} + 3Cl^- + 3OH^-$

1 point

Mark only one oval.

- Cr
- H_2O
- ClO^-
- Cl^-

55. 55) In which of the following factors does the value of equilibrium constant depends?

1 point

Mark only one oval.

- Concentration
- Temperature
- Pressure
- Volume

56. 56) K_{sp} for AgCl is 1×10^{-10} . The solubility of AgCl in 0.1 M BaCl₂ solution would be

1 point

Mark only one oval.

- 1×10^{-11} M
- 5.0×10^{-11} M
- 5.0×10^{-10} M
- 1×10^{-10} M.

57. 57) Which of the following equilibria, $K_p > K_c$?

1 point

Mark only one oval.

- $N_2O_4(g) \rightleftharpoons 2NO_2(g)$
- $PCl_5(g) \rightleftharpoons PCl_3(g) + Cl_2(g)$
- $A(s) + B(g) \rightleftharpoons 2C(g)$
- $N_2(g) + 3H_2(g) \rightleftharpoons 2NH_3(g)$

58. 58) Which one is the weakest Bronsted-Lowry base out of the following? 1 point

Mark only one oval.

- F⁻
- Cl⁻
- Br⁻
- I⁻

59. 59) The half-life period of a radioactive substance is 20 days. How long will it take for $\frac{3}{4}$ of the atoms originally present to disintegrate? 1 point

Mark only one oval.

- 60 days
- 30 days
- 10 days
- 40 days

60. 60) Which of the following pair contain only extensive properties? 1 point

Mark only one oval.

- Enthalpy, refractive index
- Volume, temperature
- Enthalpy, volume
- Viscosity, volume

61. 61) An ideal gas at 1 atm is heated from 0°C to 373K. If its initial volume is 5.46 L, the final volume would be 1 point

Mark only one oval.

- 7.46 L
- 1.865 L
- 5.46L
- 6.0 L

62. 62) The density of NH₄OH solution is found to be 0.6 g/ml. It contains 35% by mass of NH₄OH. The normality of the solution is 1 point

Mark only one oval.

- 4.8 N
- 10N
- 0.5 N
- 6.0 N

63. 63) How many grams of methanol would have to be added to water to prepare 150 ml of solution which is 2 M CH₃OH? 1 point

Mark only one oval.

- 2.4g
- 9.61g
- 9.6×10^3
- 4.3×10^2

64. 64) For the reaction $A + B \rightarrow \text{Products}$, it is found that the order of A is 1 and the order of B is $\frac{1}{2}$.
When the concentrations of both A and B are increased four times, the rate will increase by a factor:

1 point

Mark only one oval.

- 6
- 8
- 4
- 16

65. 65) Which is stronger oxidizing agent? 1 point

Mark only one oval.

- HClO
- HClO₂
- HClO₃
- HClO₄

66. 66) The type of hybridization that leads to three-dimensional geometry of 1 point
bonds around the carbon atoms?

Mark only one oval.

- sp
- sp²
- sp³
- sp³d

67. 67) In a multi-electron atom, the energy of the electron in a particular orbital is determined by 1 point

Mark only one oval.

- n only
- l only
- n and l
- n, l and m

68. 68) Passage of electricity through dilute H₂SO₄ for 1 hour liberates a total of 224 ml of H₂ at NTP. The strength of current would be: 1 point

Mark only one oval.

- 0.27 amp
- 0.54 amp
- 0.042 amp
- 0.027 amp

69. 69) TiH_{1.73} is an example of: 1 point

Mark only one oval.

- ionic hydride
- covalent hydride
- metallic hydride
- Polymeric hydride

70. 70) Polyphosphate are used as water softening agents because they: 1 point

Mark only one oval.

- form soluble complexes with anionic species
- precipitate anionic species
- form soluble complexes with cationic species
- precipitate cationic species

71. 71) The compound which could not act as both oxidizing agent and reducing agent is: 1 point

Mark only one oval.

- SO₂
- MnO₂
- Al₂O₃
- CrO

72. 72) Pb and Sn are extracted from their Chief ores by: 1 point

Mark only one oval.

- carbon reduction and self reduction
- self reduction and carbon reduction
- electrolysis and self reduction
- self reduction and electrolysis

73. 73) Hypo is used in photography to: 1 point

Mark only one oval.

- reduce AgBr grains to metallic Ag
- convert metallic Ag to silver salt
- remove undecomposed AgBr as soluble complex
- remove reduced Ag

74. 74) Which among CH₄, SiH₄, GeH₄, SnH₄ is most volatile? 1 point

Mark only one oval.

- CH₄
- SiH₄
- GeH₄
- SnH₄

75. 75) Non-lanthanide atom is 1 point

Mark only one oval.

- La
- Lu
- Pr
- Pm

76. 76) Cuprous salts are generally colourless while cuprous oxide is: 1 point

Mark only one oval.

- green
- blue
- red
- yellow

77. 77) Aquaregia reacts with Au to yields: 1 point

Mark only one oval.

- AuCl₄
- H[AuCl]₄
- AuCl₃
- Au₂O

78. 78) SO₂ reacts with chlorine to form 1 point

Mark only one oval.

- sulphur monochloride
- sulphur dichloride
- sulphuryl chloride
- sulphur trichloride

79. 79) HF present as impurity in gaseous F₂ can be removed by passing over 1 point

Mark only one oval.

- P₂O₅
- NaF
- H₂SO₄
- CaCl₂

80. 80) Which of the following statement is incorrect? 1 point

Mark only one oval.

- Chlorine can bleach a wet piece of cloth
- Iodine stain can be removed by hypo solution
- Bromine can be prepared from carnallite
- Bromine is liberated when iodine is passed through an acidified KBr solution

81. 81) The ion that cannot undergo disproportionation is 1 point

Mark only one oval.

- ClO₄⁻
- ClO₃⁻
- ClO₂⁻
- ClO⁻

82. 82) Which has greater bond length between two atoms?

1 point

Mark only one oval.

- HF
- HBr
- HCl
- HI

83. 83) The hydrolysis of alkyl halides by aqueous NaOH is best termed as: 1 point

Mark only one oval.

- electrophilic substitution reaction
- electrophilic addition reaction
- nucleophilic addition reaction
- nucleophilic substitution reaction

84. 84) SN1 reaction on optically active substrates mainly gives

1 point

Mark only one oval.

- retention in configuration
- inversion in configuration
- racemic product
- No product

85. 85) In E2 elimination, some compounds follow Hofmann's rule which means

1 point

Mark only one oval.

- the double bond goes to the most substituted position
- the compound is resistant to elimination
- no double bond is formed
- the double bond goes mainly towards the least substituted carbon

86. 86) When vinyl chloride is passed through alcoholic KOH solution:

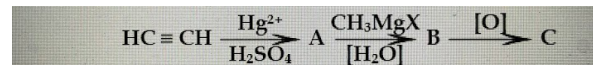
1 point

Mark only one oval.

- it dissolves
- it forms vinyl alcohol
- it forms acetylene
- it has no action

87. 87) In the following sequence of reaction, the end product is:

1 po

*Mark only one oval.*

- acetaldehyde
- isopropyl alcohol
- acetone
- ethyl alcohol

88. 88)HVZ reaction leads to the formation of:

1 point

Mark only one oval.

- acetic acid
- formic acid
- chlorosubstituted acids
- oxalic acid

89. 89)The correct order of the increasing basic nature of methyl amine, ammonia and aniline is:

1 point

Mark only one oval.

- methylamine< aniline < ammonia
- aniline < ammonia < methylamine
- aniline< methylamine < ammonia
- ammonia < aniline < methylamine

90. 90)Petrol for aviation purposes must contain

1 point

Mark only one oval.

- straight chain hydrocarbons
- aromatic hydrocarbons
- olefinic hydrocarbons
- highly branched chain paraffins

91. 91)Paracetamol is:

1 point

Mark only one oval.

- both antipyretic and analgesic
- analgesic
- antipyretic
- antimalaric

92. 92)Presence of halogens in organic compounds is detected by

1 point

Mark only one oval.

- iodoform test
- Million's test
- silver nitrate test
- Beilstein's test

93. 93)The hybridisation of carbon atom in C - C single bond of: $H - C \equiv C - CH = CH_2$ is:

1 point

Mark only one oval.

- sp³ - sp³
- sp² - sp²
- sp - sp²
- sp³ - sp

94. 94) Which of the following is reduced with zinc and hydrochloric acid to give corresponding hydrocarbon? 1 point

Mark only one oval.

- ethyl acetate
- acetic acid
- acetamide
- butan - 2 - one

95. 95) Which of the following compounds gives a positive iodoform test? 1 point

Mark only one oval.

- benzyl alcohol
- 1 - phenylethanol
- 2 - phenylethanol
- 3 - pentanol

96. 96) Absolute alcohol (100%) alcohol is prepared by distilling rectified spirit over 1 point

Mark only one oval.

- Na
- CaCl₂
- Mg
- Mg(OC₂H₅)₂

97. 97) Which of the following is most reactive towards nucleophilic addition reaction? 1 point

Mark only one oval.

- HCHO
- acetaldehyde
- C₂H₅CHO
- acetone

98. 98) Which of the following has maximum acid strength? 1 point

Mark only one oval.

- o - nitrobenzoic acid
- m - nitrobenzoic acid
- p - nitrobenzoic acid
- p - nitrophenol

99. 99) Which of the following is a mordant dye? 1 point

Mark only one oval.

- aniline black
- congo red
- alizarin
- Indigo

100. 100) Diazonium salts are reaction products between nitrous acid and 1 point

Mark only one oval.

- primary aliphatic amine
- N-alkyl substituted aromatic amines
- primary aromatic amines
- secondary amines

BOTANY

101. 101) The component of mitochondrion that involved in ATP synthesis is 0 points

Mark only one oval.

- Matrix
- Crista
- Outer membrane
- F0-F1 complex

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

Mark only one oval.

- Nucleus
- Nucleolus
- Ribosome
- Mitochondria

103. 103) PH of acid rain: 1 point

Mark only one oval.

- 5.5-7
- 3-4.5
- 7
- 8

104. 104) 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

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

Mark only one oval.

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

106. 106) Which chromosome has centromere at center?

1 point

Mark only one oval.

- metacentric
- sub-metacentric
- telocentric
- acrocentric

107. 107)What is the smallest living cell?

1 point

Mark only one oval.

- Sperm cell
- Ova
- Bacteria
- Mycoplasma

108. 108)What is cell?

1 point

Mark only one oval.

- smallest and advanced unit of life
- smallest and basic unit of life
- Largest and advanced unit of life
- Largest and basic unit of life

109. 109)Omnis cellulae cellulae means

1 point

Mark only one oval.

- All cell arise from pre existing cell
- Cell is basic unit of life
- All animals are made up of cells
- None

110. 110)Select incorrect statements w.r.t monohybrid cross of pea plant done by Mendel

1 point

Mark only one oval.

- Only one of the parental traits was expressed in F1 generation
- At the F2 stage both parental traits were expressed in the proportion 9:3:3:1
- The contrasting traits didn't show any blending at either F1 or F2 stage
- None of these

111. 111)A child of O blood group has B group father:the genotype of father will be

1 point

Mark only one oval.

- lo lo
- IB IB
- IB lo
- IA IB

112. 112)Inheritance of coat colour of cattle is an example of 1 point

Mark only one oval.

- Epistasis
- Co-dominance
- polygenic inheritance
- Incomplete inheritance

113. 113)How many different types of gametes can be formed by an individual with genotype AABBCc 1 point

Mark only one oval.

- 2
- 3
- 8
- 4

114. 114)he cross between a pea plant with yellow cotyledons and round shape(YyRr)is crossed with green cotyledon and wrinkle shape (yyrr) is 1 point

Mark only one oval.

- simple cross
- Test cross
- Reciprocal cross
- Multiple wrinkles cross

115. 115)What type of food chain begins with dead organic matter? 1 point

Mark only one oval.

- Detritus food chain
- Grazing food chain
- Predator food chain
- Parasitic food chain

116. 116)The conversion of ammonia(NH₃) into nitrites(NO₂⁻) and then into nitrates(NO₃⁻) is called: 1 point

Mark only one oval.

- Denitrification
- Nitrogen fixation
- Nitrification
- Assimilation

117. 117)Filliform apparatus is the characteristics of 1 point

Mark only one oval.

- Antipodal cell
- Egg cell
- Chalaza
- Synergids

118. 118)The stage in which meiosis take place in Spirogyra is 1 point

Mark only one oval.

- Zygote
 Zoospore
 Zygospore
 Oospore

119. 119)In yeasts, food materials are digested 1 point

Mark only one oval.

- within food vacuoles
 by lysosomes
 outside the body
 by mitochondria

120. 120)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

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

Mark only one oval.

- Archaeobacteria
 Bacteria
 Cyanobacteria
 None

122. 122)Endosperm of gymnosperm is? 1 point

Mark only one oval.

- Haploid
 Diploid
 Triploid
 Tetraploid

123. 123) In DNA if cystosine is 10%,amount of thymine is: 1 point

Mark only one oval.

- 10%
 20%
 40%
 50%

124. 124) Enzyme that cuts DNA at specific site is: 1 point

Mark only one oval.

- Topoisomerase
 Helicase
 Unwindase
 Restriction endonuclease

125. 125) Which one is used in culture medium? 1 point

Mark only one oval.

- Laminaria
 Gelidium
 Alginic acid
 Spirulina

126. 126)A colorblind man marries a normal women whose father was colorblind, then the probability of son to be colorblind is 1 point

Mark only one oval.

- 25%
 50%
 75%
 100%

127. 127) Dissolved oxygen is decreased in pond due to: 1 point

Mark only one oval.

- Biomagnification
 Eutrophication
 Nitrification
 Denitrification

128. 128) Fern prothallus is: 1 point

Mark only one oval.

- Haploid
 Diploid
 Haplodiploid
 Polyploid

129. 129) Zygosporangium of spirogyra is: 1 point

Mark only one oval.

- Haploid
 Diploid
 Haplo-diploid
 Diplo-Diploid

130. 130)Hormone that cause rooting: 1 point

Mark only one oval.

- Auxin
 Cytokinin
 Gibberellin
 ABA

131. 131) If the percentage of A is 30%.What would be the percentage of C? 1 point

Mark only one oval.

- 20%
 70%
 50%
 25%

132. 132)Edibal part of litchi develops from 1 point

Mark only one oval.

- Funicle
 Integument
 Nucellus
 Synergids

133. 133)Which of the following is a genetically modified organism(GMO)? 1 point

Mark only one oval.

- Hybrid maize
 Bt cotton
 Grafted citrus plant
 Tissue-cultured banana

134. 134)Which of the following commercial fibers is not derived from the stem? 1 point

Mark only one oval.

- Flax
 Cotton
 Hemp
 Ramie

135. 135)Which bacterial group lacks a peptidoglycan cell wall? 1 point

Mark only one oval.

- Gram-positive bacteria
 Cyanobacterial
 Proteobacteria
 Mycoplasma

136. 136) Individual having same alleles for a gene is known as: 1 point

Mark only one oval.

- Homozygous
- Heterozygous
- Hemizygous
- Azygous

137. 137) Maximum amount of water moves from root to tip of plant due to: 1 point

Mark only one oval.

- Transpiration pull
- Capillarity
- Root pressure
- Imbibition

138. 138) 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

139. 139) 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

140. 140) 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

ZOOLOGY

141. 141) Excretory organ of echinoderms 1 point

Mark only one oval.

- Metanephridia
- Organ of bojanus
- Pericardial glands
- None

142. 142)Nervous system of Hydra is made up of: 1 point

Mark only one oval.

- Ganglionated nerve cords
- well-defined nerves
- polarized nerve cells
- non-polar nerve cells

143. 143)Which of the structure is not a part of excretory system in frogs? 1 point

Mark only one oval.

- Cloaca
- ureter
- urinary bladder
- Anus

144. 144)Ascaris is characterized by: 1 point

Mark only one oval.

- presence of true coelom but absence of metamerism
- presence of true coelom and metamerism
- absence of true coelom but presence of metamerism
- presence of neither true coelom nor metamerism

145. 145)Nephrostome are found in following type of nephridia of earthworm? 1 point

Mark only one oval.

- Septal
- Pharyngeal
- Nephrocyte
- Solenocytes

146. 146)Which blood group has no antibody? 1 point

Mark only one oval.

- O
- AB
- A
- B

147. 147)To view the enterocoel, you will pick this animal? 1 point

Mark only one oval.

- Starfish
- Earthworm
- Ascaris
- Fasciola

148. 148) Which of the following animals is not correctly matched to its behavioural adaptations? 1 point

Mark only one oval.

- Bat – patagia
- Chameleon – protrusible tongue
- Bird – single ovary
- shark-swim bladder

149. 149) Primary atmosphere of the earth could not possibly have combined: 1 point

Mark only one oval.

- Nitrogen
- Oxygen
- Hydrogen
- Methane

150. 150) Retroperitoneal organ is: 1 point

Mark only one oval.

- stomach
- liver
- ureter
- appendix

151. 151) Which of the following cartilage is hyaline cartilage of larynx? 1 point

Mark only one oval.

- Epiglottis
- Corniculate
- Thyroid
- Cuneiform

152. 152) Which of these structures attach the testes to the kidneys in male frogs? 1 point

Mark only one oval.

- Tympanum
- Bidder's canal
- Mesorchium
- Sensory papillae

153. 153) The process by which organisms with different evolutionary history evolve similar phenotypic adaptations in response to a common environmental challenge is called: 1 point

Mark only one oval.

- natural selection
- convergent evolution
- non-random evolution
- adaptive radiation

154. 154)Stratified squamous epithelium is found in: 1 point

Mark only one oval.

- Tonsils
- Peyer;s patches
- Appendix
- Spleen

155. 155)Body asymmetrical due to torsion in: 1 point

Mark only one oval.

- Cephalopoda
- Gastropoda
- Bivalvia
- Aplacophora

156. 156)Ookinete in life cycle of Plasmodium formed from: 1 point

Mark only one oval.

- Male gamete
- Zygote
- Gametocytes
- merozoites

157. 157)Arteries carry oxygenated blood EXCEPT: 1 point

Mark only one oval.

- Pulmonary
- Cardiac
- Hepatic
- Systemic

158. 158)Synovial fluid is found in 1 point

Mark only one oval.

- cranial cavity
- spinal artery
- immovable joints
- freely movable joint

159. 159)Which of the following depresses the heartbeat? 1 point

Mark only one oval.

- Pericardium
- Spinal accessory
- Trigeminal
- Vagus

160. 160) Which one of the following pairs is mismatched? 1 point

Mark only one oval.

- Hypocortisolism – cretinism
- Hypothyroidism – myxoedema
- Hypercortisolism – cushing's syndrome
- Hyperthyroidism – exothalamicgoitre

161. 161) Pouched mammals are known as 1 point

Mark only one oval.

- Eutherian
- Cetaceans
- Prototherian
- Metatherian

162. 162) The peritubular capillaries emerge from which of the following? 1 point

Mark only one oval.

- efferent arteriole
- afferent arteriole
- henle's loop
- renal artery

163. 163) Anabas migrating from water to land: 1 point

Mark only one oval.

- longitudinal migration
- latitudinal migration
- vertical migration
- shoreward migration

164. 164) Pernicious anaemia is due to the deficiency of 1 point

Mark only one oval.

- iron
- calciferol
- cobalamin
- phylloquinone

165. 165) Ambulacral system is found in: 1 point

Mark only one oval.

- cuttle fish
- star fish
- devil fish
- jelly fish

166. 166) In Pheretima, which one will excrete silicates consumed along with food? 1 point

Mark only one oval.

- Intestinal cells
- Basal cells
- Chloragogen cells
- Chromophil cells

167. 167) Spermathecal pores in earthworm: 1 point

Mark only one oval.

- 1
- 4
- 6
- 8

168. 168) In female mammals, Bartholin's glands open into the: 1 point

Mark only one oval.

- Fallopian tubes and release a secretion which makes sperm motile
- Uterus and release a lubricating fluid during the birth of young ones
- Urinary bladder and assist in the release of urine
- Vestibule and release a lubricating fluid in the vagina

169. 169) The drug used to increase cardiovascular effects in human beings is: 1 point

Mark only one oval.

- Cocaine
- Barbiturates
- Insulin
- Benzodiazepam

170. 170) Lymphatic filariasis is transmitted by: 1 point

Mark only one oval.

- sandfly
- tse tse fly
- culex mosquito
- housefly

171. 171) All of the following are the examples of a biological specimen that can be taken for the laboratory diagnosis of HIV infection, EXCEPT 1 point

Mark only one oval.

- Blood
- Saliva with the presence of blood
- Genital secretion
- Urine with no presence of blood

172. 172)Which among the following are examples are examples of homologous organs?

1 point

Mark only one oval.

- wings of butterfly and bird
- flippers of penguins and dolphins
- eye of octopus and mammals
- forelimbs of whales, bats, cheath and humans

173. 173)Prosimii includes:

1 point

Mark only one oval.

- Lemur
- tarsier
- New World monkey
- Both a & b

174. 174)In humans, schizont stage of Plasmodium is found in:

1 point

Mark only one oval.

- Liver cells only
- Liver,Spleen and blood cells
- RBCs and Liver cells
- RBCs only

175. 175)The functional kidney of birds:

1 point

Mark only one oval.

- Pronephros
- Mesonephros
- Metanephros
- Archinephros

176. 176)Upwardly directed pigmented part of frog's egg is related with:

1 point

Mark only one oval.

- Camouflage
- Supply of the nourishment
- Colouration
- Respiration

177. 177)Intervertebral disc is made up of:

1 point

Mark only one oval.

- Elastic cartilage
- Fibrous cartilage
- Calcified cartilage
- Hyaline cartilage

178. 178) In human embryo, main haemopoetic tissue is: 1 point

Mark only one oval.

- Spleen
- Liver
- Bone marrow
- Kidney

179. 179) Compound squamous epithelium is found in: 1 point

Mark only one oval.

- Stomach
- Intestine
- Trachea
- Pharynx

180. 180) The afferent process of neuron is known as: 1 point

Mark only one oval.

- Axon
- Dendrite
- Cyton
- Neurofibrillae

MATT

181. 181) 10 Women can complete a work in 7 days and 10 children take 14 days to complete the work. How many days will 5 women and 10 children take to complete work? 1 point

Mark only one oval.

- 7 days
- 8 days
- 3 days
- 5 days

182. 182) 20 liter of a mixture of milk and water. How much pure milk should be mixed with it to get 1% water in the new mixture? 1 point

Mark only one oval.

- 10L
- 20L
- 30L
- 40L

183. 183) The average of two number is xy . If one number is X , then the other number is 1 point

Mark only one oval.

- $(2xy-x)$
- $y/2$
- $x/2$
- $x(y-1)$

184. 184)A thief steals a car at 1:30 pm and drives it at 60 km per hour.The theft is discovered at 2 pm. and the owner sets of in another car at 80 km per hour.At what time will be overtake the thief? 1 point

Mark only one oval.

- 4:30 pm
- 3:30 pm
- 6:00 pm
- 5:00 pm

185. 185)A,B,c are three partners in a business. A invests 3 times as much as B invests and B invests two-third of what C invests. The ratio of capitals of A,B and C is: 1 point

Mark only one oval.

- 1:1:4
- 2:3:4
- 8:1:2
- 6:2:3

186. 186)A watch reads 4.30. If the minute hands points East,in what direction will the hour hand point: 1 point

Mark only one oval.

- North
- North-West
- South-West
- North-East

187. 187)If pen is table,table is fan,fan is chair and chair is roof, on which of the following will a person sit? 1 point

Mark only one oval.

- Fan
- Chair
- Roof
- Table

188. 188)A number is greater than 3 but less than 8.Also, it is greater than 6 but less than 10. The number is 1 point

Mark only one oval.

- 6
- 7
- 8
- 9

189. 189)Karishma: I slept.
Sneha: I felt bored. 1 point

Mark only one oval.

- Both Karishma and Sneha are true and Sneha is the correct explanation of Karishma
- Both Karishma and Sneha are true but Sneha is not the correct explanation of Karishma
- Karishma is true but Sneha is false
- Karishma is false but Sneha is true

190. 190)Synonym of APPLAUDED

1 point

Mark only one oval.

- .Clapped
- .praised
- Supported
- Shouted

191. 191)Find the missing term :
5, 6, 9, 15, ?, 40

1 point

Mark only one oval.

- 22
- 25
- 23
- 16

192. 192)Find the missing character from among the given alternatives

1 p

26	18	10
11	9	7
5	4	1
10	5	?

Mark only one oval.

- 2
- 3
- 4
- 5

193. 193)Common properties of (2, 14, 16)

1 point

Mark only one oval.

- (2, 7, 8)
- (3, 21, 24)
- (2,9,16)
- None

194. 194)Arrange the words in meaningful way and choose the best option . 1 point

1)Mother 2)Child 3)Milk 4)Cry 5)Smile

Mark only one oval.

- 1,3,5,4,2
- 2, 4, 1, 3, 5
- 2, 4, 3, 5,1
- 2, 4, 3, 1, 5

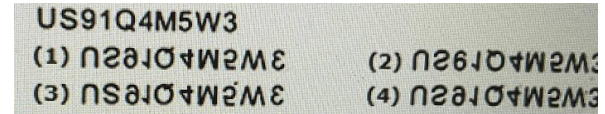
195. 195)Choose the Letter which is different from the others in a group

1 point

Mark only one oval.

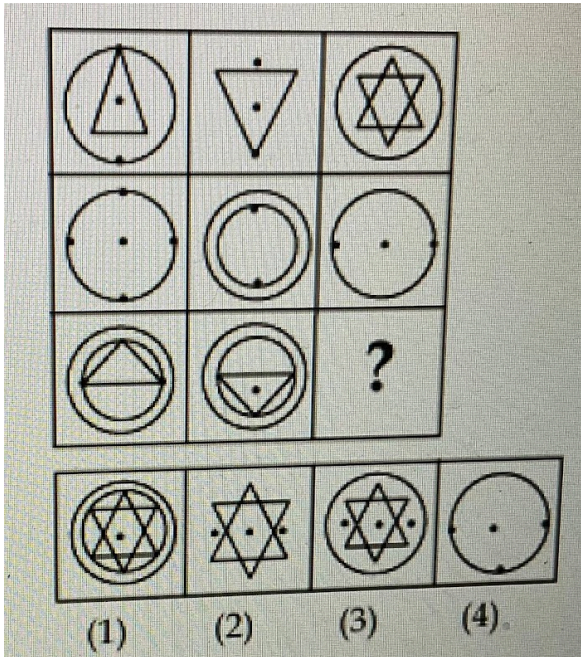
- H
- Q
- T
- Z

196. 196)Choose the alternative which is closely resembles the water-image of the given combination 1 p

*Mark only one oval.*

- 1
- 2
- 3
- 4

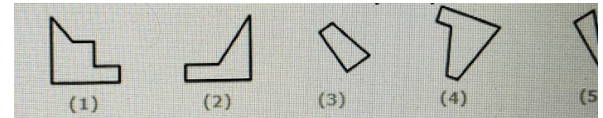
197. 197) Select a suitable figure from the four alternatives that would complete the figure matrix



Mark only one oval.

- 1
- 2
- 3
- 4

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



Mark only one oval.

- 123
- 234
- 345
- 245

199. 199) Choose the box that is similar to the box formed from the given sheet of paper (X)

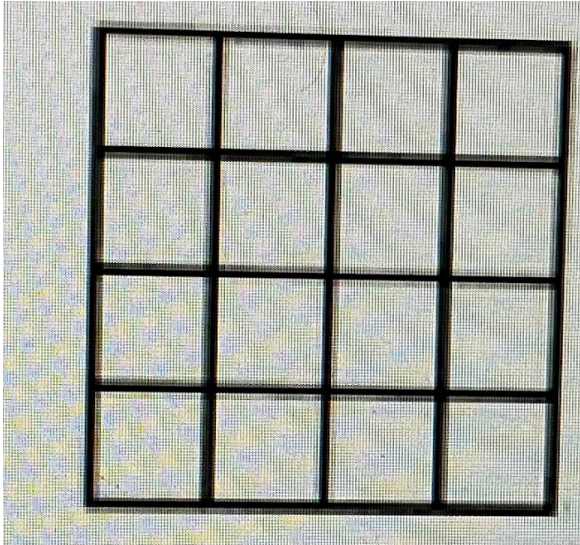


Mark only one oval.

- 1 AND 2 ONLY
- 2,3 AND 4 ONLY
- 4 ONLY
- 3 AND 4 ONLY

200. Count the number of squares in the given figure:

1 f



Mark only one oval.

- 30
- 32
- 38
- 40

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