

## Set - 11 Full Length Test - 2025

By CEE Nepal Preparation

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1 - 50 -> Physics

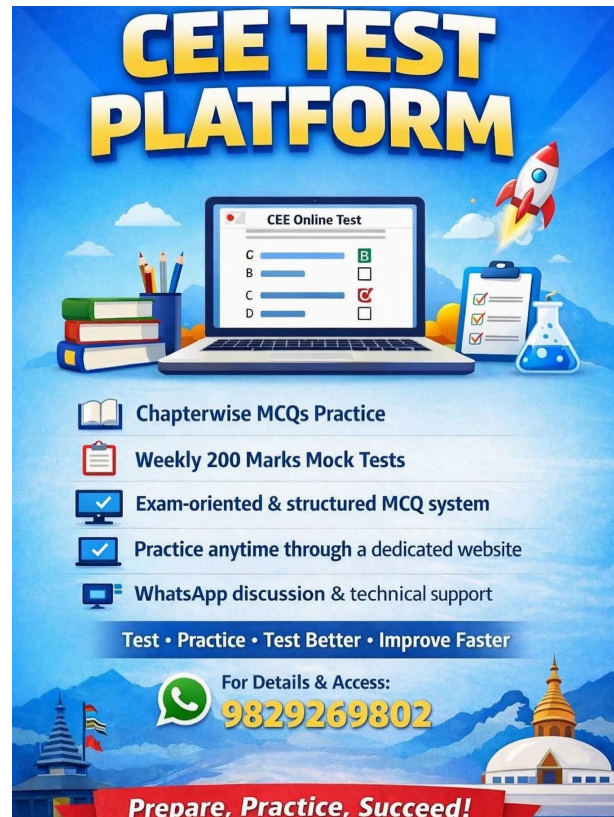
51 - 100 -> Chemistry

101 - 140 -> Botany

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PHYSICS

1. 1) Which of the following is a scalar quantity?

1 point

Mark only one oval.

- Electric potential
- Force
- Torque
- Potential gradient

2. 2) If velocity of body at maximum height is half of the initial velocity, then find the range of projectile fired, if initial velocity is  $u$ .

1 point

Mark only one oval.

- $u^2/2g$
- $3u^2/2g$
- $\sqrt{3} u^2/2g$
- $4u^2/g$

3. 3) A body is placed in an inclined plane. At certain angle, the body just starts to slide down the plane. The particular angle is..

1 point

Mark only one oval.

- Angle of repose
- Angle of friction
- Normal angle
- Tangent angle

4. 4) 'A' and 'B' are two bodies and A is lighter than B. If they have equal momentum, then kinetic energy of A is..

1 point

Mark only one oval.

- Equal to B
- Greater than B
- Less than B
- Can't be predicted

5. 5) The area of cross section of steel wire ( $Y = 2 \times 10^{10} \text{ N/m}^2$ ) is  $100 \text{ m}^2$ . The force required to double its length is...

1 point

Mark only one oval.

- $2 \times 10^{12} \text{ N}$
- $2 \times 10^{11} \text{ N}$
- $2 \times 10^{10} \text{ N}$
- $2 \times 10^6 \text{ N}$

6. 6) Which of the following is invert gate?

1 point

Mark only one oval.

- NOT
- NOR
- OR
- NAND

7. 7) Which of the following is correct about X-rays?

1 point

Mark only one oval.

- X-ray is longitudinal Wave
- X-ray gets diffracted by crystal
- X-ray cannot be polarized
- X-ray cannot ionize the gas

8. 8) Bragg's law has no solution if..

1 point

Mark only one oval.

- $\lambda > 2d$
- $\lambda = 2d$
- $\lambda < 2d$
- $\lambda > d$

9. 9) If the rest mass of body is  $M_0$  and it is moving with velocity equal to  $0.8c$ , then the mass of body will be..

1 point

Mark only one oval.

- $M_0$
- $2M_0$
- $5/3 M_0$
- $2/5 M_0$

10. 10) If the speed of rotation of earth increases, the weight of a body..

1 point

Mark only one oval.

- Increase
- decrease
- May increase or decrease
- Remains unchanged

11. 11) The increasing order of unit of energy among joule, eV, calorie and erg is

1 point

Mark only one oval.

- eV, erg, joule, calorie
- eV, erg, calorie, joule
- erg, eV, joule, calorie
- eV, joule, erg, calorie

12. 12) A compound microscope consists of an objective lens of focal length 1 cm and an eye piece of focal length 5 cm with a separation of 10 cm. The distance between an object and the objective lens, at which the strain on the eye is minimum is  $n/40$  cm. The value of  $n$  is:

1 point

Mark only one oval.

- 30 cm
- 40 cm
- 50 cm
- 60 cm

13. 13) Which of the following is equation for adiabatic process?

1 point

Mark only one oval.

- $dQ = nC_p dt$
- $dU = nC_p dt$
- $dQ = nC_v dt$
- $dU = nC_v dt$

14. 14) A coil of area  $10 \text{ m}^2$  is placed perpendicular to a uniform magnetic field of  $0.1 \text{ T}$ , the magnetic flux linked with the coil is:

1 point

Mark only one oval.

- $0.1 \text{ Weber}$
- $10 \text{ Weber}$
- $1 \text{ Weber}$
- $100 \text{ Weber}$

15. 15) A step down transformer has primary voltage  $200 \text{ V}$  and  $5 \text{ A}$  current. If the ratio of turns is  $1:3$ , then secondary voltage will be..

1 point

Mark only one oval.

- $60 \text{ V}$
- $600 \text{ V}$
- $30 \text{ V}$
- $300 \text{ V}$

16. 16) The elementary particle responsible for fundamental interaction is:

1 point

Mark only one oval.

- Fermion
- Boson
- Lepton
- Hadron

17. 17) Nuclear fission is initiated by..

1 point

Mark only one oval.

- Neutron
- Photon
- Electron
- Proton

18. 18) If two temperature scales are dipped in a hot bath and reading in Fahrenheit scale is 3 times the Celsius scale. The temperature of hot bath is:

1 point

Mark only one oval.

- $100^\circ \text{C}$
- $80/3^\circ \text{C}$
- $50^\circ \text{C}$
- $50/3^\circ \text{C}$

19. 19) If the coefficient of linear expansion of glass with mass 50 gm, the mass of liquid it holds at 80 °C is: 1 point

Mark only one oval.

- 46 gm
- 48 gm
- 51 gm
- 54 gm

20. 20) A steel tape gives correct measurement at 50 °C. A piece of wood is being measured with the steel tape at 0 °C, the reading is 50 cm on tape. The real length of piece of wood must be.. 1 point

Mark only one oval.

- 50 cm
- >50cm
- <50 cm
- can't be predicted

21. 21) In which condition transistor works on saturated mode? 1 point

Mark only one oval.

- $V_b$  greater than  $V_e$  and  $V_c$
- $V_e$  greater than  $V_b$  and  $V_c$
- $V_b$  less than  $V_e$  and  $V_c$
- $V_c$  greater than  $V_b$  and  $V_e$

22. 22) The focal length of convex lens depends upon: 1 point

Mark only one oval.

- $\lambda$  of incident ray
- $\lambda$  and  $f$  of incident ray
- $f$  of incident ray
- Neither on  $\lambda$  nor on frequency of incident wavelength

23. 23) Two thin lens of focal length  $f_1$  and  $f_2$  are placed in contact co-axially. The combination is equivalent to a single lens of power: 1 point

Mark only one oval.

- $f_1 f_2 / f_1 + f_2$
- $f_1 - f_2$
- $f_1 + f_2$
- $f_1 + f_2 / f_1 f_2$

24. 24) If the work function of a metal is 4eV and the velocity of ejected electron is Zero. Then find the wavelength of incoming incident photon. 1 point

Mark only one oval.

- 2100Å
- 2300Å
- 3100Å
- 2700Å

25. 25)The PN junction will be forward biased if.. 1 point

Mark only one oval.

- Both P and N junction are grounded
- P-region is grounded and N-region is given +ve charge
- P-region is given positive charge and N-region is grounded
- Both are given positive charge

26. 26) If force constant of spring is 100N/m, the PE of string is 0.5 J, then extension produced is: 1 point

Mark only one oval.

- 10cm
- 1cm
- 0.1cm
- 2cm

27. 27)A man heard thunder 6 second later after he saw a lighting. The temperature of air is 27°C, How far was the flash of light from the man? [Velocity of sound in air at 0°C is 332 m/s] 1 point

Mark only one oval.

- 1822 m
- 2332 m
- 2088 m
- 2445 m

28. 28)At constant temperature, by how much pressure should be increased in order in decrease volume by 10%? 1 point

Mark only one oval.

- 9.5%
- 11.11%
- 10%
- 12%

29. 29)Red and Blue light are deviated by angle  $10^\circ$  and  $12^\circ$  by one prism and  $8^\circ$  and  $10^\circ$  by another prism then their ratio of dispersive power is: 1 point

Mark only one oval.

- 9/11
- 11/9
- 5/6
- 6/5

30. 30)Ratio of intensities in consecutive maximum in a diffraction due to a single slit is: 1 point

Mark only one oval.

- 1:2:3
- 1:4:9
- $1:1/\pi^2 : 9/\pi$
- $1:4/9\pi^2 : 4/25\pi^2$

31. 31) Two charges, each of charge  $1 \mu\text{C}$  are separated by a distance  $1\text{m}$ . Then electrostatic force between the two charge is: 1 point

Mark only one oval.

- $9 \times 10^9 \text{ N}$
- $9 \times 10^3 \text{ N}$
- $9 \times 10^{-3} \text{ N}$
- $9 \times 10^{-6} \text{ N}$

32. 32) Two body of masses  $m_1$  and  $m_2$  move in circle of radii  $r_1$  and  $r_2$  respectively. If they complete the circle in equal time, then the ratio of their angular speed  $\omega_1 / \omega_2$  is: 1 point

Mark only one oval.

- $m_1/m_2$
- $r_1/r_2$
- $m_1r_1/m_2r_2$
- 1

33. 33) The capacitance of a capacitor is independent of: 1 point

Mark only one oval.

- Quality of plates
- Size of plates
- Distance between plates
- Medium between plates

34. 34) An object is moving towards a plane mirror with a velocity ( $V$ ) making a certain angle  $\delta$  with normal of plane mirror. The velocity of image W.r.t object is: 1 point

Mark only one oval.

- $v \cos \delta$
- $v \sin \delta$
- $2v \cos \delta$
- $2v \sin \delta$

35. 35) In a capacitive circuit... 1 point

Mark only one oval.

- $V$  leads  $I$  by  $\pi/2$
- $V$  and  $I$  are in same phase
- $I$  leads  $V$  by  $\pi$
- $I$  leads  $V$  by  $\pi/2$

36. 36) If a galvanometer of  $I_g = 1\text{A}$  and  $G = 0.81 \Omega$  is to be made to measure  $10\text{A}$  current then resistance of required shunt will be.. 1 point

Mark only one oval.

- $0.9 \Omega$
- $0.09 \Omega$
- $9 \Omega$
- $90 \Omega$

37. 37)The resistance of material at 20 °C is 1.72 Ω then resistance become .. at 100 °C. [  $\alpha=0.0039K^{-1}$  ] 1 point

Mark only one oval.

- 1.58Ω
- 2.62Ω
- 22.6Ω
- 15.8Ω

38. 38)The scientific reason behind placing handle of a door close to the edge of a door is: 1 point

Mark only one oval.

- To produce large torque from small effort
- To produce largest momentum
- To produce large force from small torque
- To produce the door from unusual bonding

39. 39)A length of a wire is stretched by 0.1%, then resistance change will be... 1 point

Mark only one oval.

- 0.2%
- 0.8%
- 0.3%
- 0.4%

40. 40) A slab of thickness 't' ( $t < d$ ) of dielectric constant '5' is introduced between the plates of 10 μF capacitor then, the new capacitance will be.. 1 point

Mark only one oval.

- 50μF
- 200μF
- 100μF
- 400μF

41. 41)Radius of conductor is increased by 2 times then specific resistance will be.. 1 point

Mark only one oval.

- 2 times
- 4 times
- unchanged
- 8 times

42. 42)

1 po

In a radioactive disintegration, if mother nucleus  ${}^Z X^A$  undergoes  $\beta^+$  decay, then daughter nucleus will be ...

Mark only one oval.

- A Y Z+1
- A Y Z-1
- A+1 Y Z
- A-1 Y Z

43. 43) If the kinetic energy of particle is 16 times of initial kinetic energy, then percentage change in de Broglie wavelength will be... 1 point

Mark only one oval.

- 25%
- 50%
- 75%
- 40%

44. 44) If specific charge of a particle is  $1.7 \times 10^{11}$  C/Kg then potential difference per unit distance is 80 V/m, then acceleration will be... 1 point

Mark only one oval.

- $14.4 \times 10^{12}$  m/s<sup>2</sup>
- $144 \times 10^{12}$  m/s<sup>2</sup>
- $14.4 \times 10^{16}$  m/s<sup>2</sup>
- None

45. 45) Zener diode conducts when..

1 point

Mark only one oval.

- Reverse breakdown voltage of Zener diode is greater than ordinary diode
- Reverse breakdown voltage of Zener diode is equal to ordinary diode
- Zener diode is less doped
- Reverse breakdown voltage of zener diode is less than ordinary diode

46. 46) Frequency of radio wave is 15 MHz, its wavelength is: 1 point

Mark only one oval.

- 20m
- 30m
- 40m
- 15m

47. 47) When moving an electric charge of +5C from A to B at certain potential, 10 Joule work is done. Then find the potential difference... 1 point

Mark only one oval.

- 0.5 V
- 4 V
- 5 V
- 2 V

48. 48)A circular disc of Radius 'R' has a hole of radius 'r' is floating in surface of Water, What is the surface tension force acting on the disc? 1 point

Mark only one oval.

- $F = S \times 2\pi(R+r)$
- $F = S \times 2\pi(R-r)$
- $F = 2\pi r$
- $F = S + R\pi r$

49. 49)Two current carrying conductor carrying current in opposite direction: 1 point

Mark only one oval.

- Attract
- Repel
- First attract then repel
- First repel then attract

50. 50)Current of 12V battery having 3 ohm resistance and 4 ohm inductance initially at  $t=0$  is .... 1 point

Mark only one oval.

- 0A
- 1.2A
- 2.4A
- 3A

51. 51)Nylon6,6 is formed by the condensation of the monomers: 1 point

Mark only one oval.

- Butane-1,3-diene and 4-propylene
- Ethane-1,2-diol and 4-Benzenedioic acid
- Phenol and Aldehyde
- 1,6-Diamino hexane and 1,6 Hexanedioic acid

52. 52)Why is sodium extract boiled with  $\text{HNO}_3$  before Lassaigne's test? 1 point

Mark only one oval.

- To remove CN- and S-
- To make the solution acidic
- To increase basicity
- To make solution lighter

53. 53)Metal used in Ziegler-Nata catalyst is: 1 point

Mark only one oval.

- Ti
- Cd
- Fe
- Br

54. 54) Which of the following is not true about CO?

1 point

Mark only one oval.

- It violates octet rule
- It makes rain water acidic
- It is pale blue in colour
- It is poisonous gas

55. 55)  $C_6H_5N_2Cl + CuCl$  gives..

1 point

Mark only one oval.

- $C_6H_6$
- $C_6H_5NH_2$
- $C_6H_5Cl$
- $C_6H_5-C_6H_5$

56. 56) Chloroform is formed when chloroform reacts with..

1 point

Mark only one oval.

- Acetone
- Acetaldehyde
- Nitric acid
- Phenol

57. 57) Dehydration of ethanol ( $C_2H_5OH$ ) at  $170^\circ C$  forms..

1 point

Mark only one oval.

- Ethene
- Carboanion
- Carbene
- Hydrogen ethyl sulphate

58. 58) Which of the following is an amorphous form of carbon?

1 point

Mark only one oval.

- Diamond
- Graphite
- Fullerenes
- Anthracite

59. 59) Which of the following compounds does not show Lassaigne's test for nitrogen?

1 point

Mark only one oval.

- Urea
- Hydrazine
- Azobenzene
- Phenylhydrazine

60. 60) IUPAC name of  $\text{CH}_3\text{COCH}_2\text{CH}_2\text{CH}_3$  is:

1 point

*Mark only one oval.*

- Pentan-2-one
- Propylmethyl ketone
- 4-pentanone
- Ethyl acetate

61. 61) Which of the following is refined by Zone refining process?

1 point

*Mark only one oval.*

- Si
- V
- Ti
- C

62. 62) All of them are extracted from pyrometallurgy except..

1 point

*Mark only one oval.*

- Ca
- Hg
- Fe
- Pb

63. 63) On Ozonolysis, benzene gives:

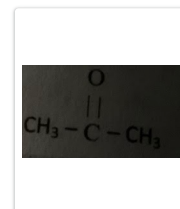
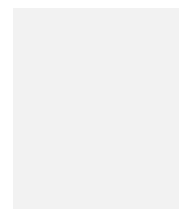
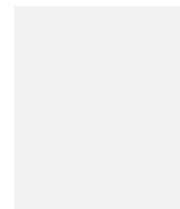
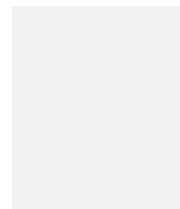
1 point

*Mark only one oval.*

- Only ethanol
- Ethanal
- Methanal
- Ethenedial

64. 64) Which of the following give Cannizzaro reaction?

1 point

*Mark only one oval.*

65. 65) Nitrobenzene is

1 point

Mark only one oval.

- m-directing
- o-directing
- p-directing
- both o- and p- directing

66. 66) Halo- arenes are less reactive than halo alkanes in nucleophilic substitution reaction. This is due to..

1 point

Mark only one oval.

- Inductive effect
- Metamerism
- Resonance
- Tautomerism

67. 67) Commercially available concentrated HCL contains 38% HCL by mass. Calculate the molarity of the solution. (Density=1.19 gm/ml)

1 point

Mark only one oval.

- 11.38
- 11.48
- 12.38
- 12.48

68. 68) Acetone on reaction with conc. H<sub>2</sub>SO<sub>4</sub> gives:

1 point

Mark only one oval.

- Xylene
- Mesitylene
- Toulene
- Benzene

69. 69) Heterolytic fission gives..

1 point

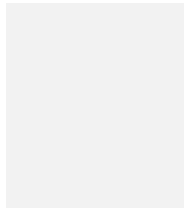
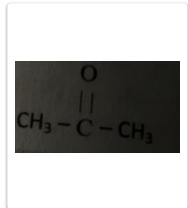
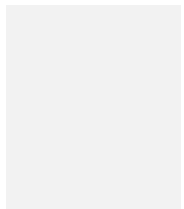
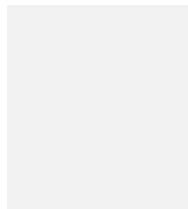
Mark only one oval.

- Carbocation
- Ions
- Free radicals
- Carbocation and carbanion

70. 70) Which of the following reacts with Benedict's reagent?

1 point

Mark only one oval.

 CH<sub>2</sub>  
CHO Option  
2 C<sub>6</sub>H<sub>5</sub>  
CHO R-  
COO  
H

71. 71) The reaction is spontaneous if..

1 point

Mark only one oval.

- $\Delta H - T \Delta S$  is negative
- $\Delta H - T \Delta S$  is positive
- $\Delta H = T \Delta S$
- $\Delta H - T \Delta S = 0$

72. 72) Calculate the pH of buffer solution containing 0.02 moles of NH<sub>4</sub>Cl and 0.2 moles of NH<sub>4</sub>OH per litre (Given pK<sub>b</sub>=5).

1 point

Mark only one oval.

- 9
- 10
- 11
- 12

73. 73) In the reaction CH<sub>3</sub>COOH + NH<sub>3</sub> → CH<sub>3</sub>COO<sup>-</sup> + NH<sub>4</sub><sup>+</sup>, which acts as Bronsted acid?

1 point

Mark only one oval.

- CH<sub>3</sub>COO<sup>-</sup>
- CH<sub>3</sub>COO<sup>-</sup> AND NH<sub>4</sub><sup>+</sup>
- CH<sub>3</sub>COOH AND NH<sub>4</sub><sup>+</sup>
- NH<sub>4</sub><sup>+</sup> AND CH<sub>3</sub>COOH

74. 74) Which of the following is a largest ion?

1 point

Mark only one oval.

- Mg<sup>2+</sup>
- O<sup>2-</sup>
- F<sup>-</sup>
- Na<sup>+</sup>

75. 75) If a gas X diffuses 4 times slower than hydrogen, then the molecular weight of X is: 1 point

Mark only one oval.

- 32
- 64
- 16
- 8

76. 76) Ratio of vapour density of gas A and has B is 4. If molecular weight of A is M, molecular wt. of B is: 1 point

Mark only one oval.

- M
- M/4
- 4M
- M/2

77. 77) Percentage of oxygen in NaOH is: 1 point

Mark only one oval.

- 16
- 32
- 10
- 40

78. 78) In down's process, which of the following takes place at cathode? 1 point

Mark only one oval.

- Na+ gets oxidized
- Na+ get reduced
- H<sub>2</sub> is released
- Cl<sub>2</sub> is released

79. 79) Which of the following doesn't produce Cl when reacts with AgNO<sub>3</sub> at 25 °C? 1 point

Mark only one oval.

- CoCl<sub>3</sub>.6NH<sub>3</sub>
- CoCl<sub>3</sub>.3NH<sub>3</sub>
- CoCl<sub>3</sub>.5NH<sub>3</sub>
- CoCl<sub>3</sub>.4NH<sub>3</sub>

80. 80) 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

81. 81) Zn can give H<sub>2</sub> gas with HCl and H<sub>2</sub>SO<sub>4</sub> but not with HNO<sub>3</sub> why? 1 point

Mark only one oval.

- Zn acts as an oxidized agent when reacted with HNO<sub>3</sub>
- HNO<sub>3</sub> is weaker acid than H<sub>2</sub>SO<sub>4</sub> AND HCl
- Zn is above H<sub>2</sub> in electrochemical series
- NO<sub>3</sub><sup>-</sup> is reduced in preference to hydronium ion.

82. 82) All of the following are true for nitric acid expect: 1 point

Mark only one oval.

- It is colorless
- It is powerful reducing agent and reduces noble gas
- It produces depends upon conc.
- It exist as planer molecule

83. 83) Which of the following acts both as oxidizing agent and reducing agent? 1 point

Mark only one oval.

- HNO<sub>3</sub>
- HNO<sub>2</sub>
- H<sub>2</sub>S
- H<sub>2</sub>SO<sub>4</sub>

84. 84) The half life of a reaction is constant on doubling the concentration of reactant, the order of reaction is: 1 point

Mark only one oval.

- 0
- 1
- 2
- 3

85. 85) If the unit of rate constant of a reaction is same as that of unit of rate of reaction, the order of reaction is: 1 point

Mark only one oval.

- 0
- 1
- 2
- 3

86. 86) When the conc. of reactant is doubled then equilibrium constant becomes: 1 point

Mark only one oval.

- Doubled
- Halved
- Quadrupled
- Constant

87. 87) If  $K_c = 2$ , which is true equations:

1 point

*Mark only one oval.*

- conc. of product and reactant remain same
- conc. of product is twice than reactant
- conc. of reactant is twice of product
- conc. of product is half of reactant

88. 88)  $\text{SO}_2 + 1/2 \text{O}_2 \rightarrow \text{SO}_3 + \text{heat}$ 

1 point

All of the following favors formation of  $\text{SO}_2$  except.*Mark only one oval.*

- increases in conc. of reactants
- increases in pressure
- Decreases in temperature
- Increases in temperature

89. 89) How many mole of  $\text{KMnO}_4$  are required to oxidize 1 mole of  $\text{Sn}^{+2}$  in acidic medium?

1 point

*Mark only one oval.*

- 1/5
- 2/5
- 3/5
- 4/5

90. 90) If  $\text{C} + \text{O}_2 \rightarrow \text{CO}_2; \Delta H = -a$   
and  $2\text{CO} + \text{O}_2 \rightarrow 2\text{CO}_2; \Delta H = -b$   
Find the heat of formation of  $\text{CO}$ .

1 point

*Mark only one oval.*

- $b - 2a/2$
- $b - a/2$
- $a - 2b/2$
- $a - b$

91. 91) Transition metal show variable oxidation state, due to emission of electron from:

1 point

*Mark only one oval.*

- $(n-1)d$  and  $ns$  orbital
- $(n-1)d$  orbital
- $ns$  orbital
- $np$  orbital

92. 92) Which of following is used as both fertilizer and explosive?

1 point

*Mark only one oval.*

- Ammonium nitrate
- Urea
- Calcium Ammonium Nitrate
- Super phosphate of lime

93. 93) Which of the following have/bears color to the dye?

1 point

Mark only one oval.

- Chromophore
- Cytochrome
- Chromogens
- Auxochrome

94. 94) Aldehyde is prepared from acid chloride by which of the following reactions:

1 point

Mark only one oval.

- Rosenmund reaction
- Cannizzaro reaction
- Benzoin condensation
- Perkin's condensation

95. 95) Galvanization is a process of coating zinc over iron during this process, Zn acts as:

1 point

Mark only one oval.

- Sacrificial anode
- Sacrificial cathode
- Anode mud
- Both b and c

96. 96) Which of the following produces  $Cl_2$  at room temperature?

1 point

Mark only one oval.

- $HCl + KMnO_4$
- $NaCl + MnO_2$
- $HBr + KCl$
- $Cl_2 + NaOH$

97. 97) Ionization energy is minimum for...

1 point

Mark only one oval.

- $1s^2 2s^2 2p^6$
- $1s^2 2s^2 2p^5$
- $1s^2 2s^2 2p^6 3s^1$
- $1s^2 2s^2 2p^3$

98. 98) Halogen with highest electron affinity is:

1 point

Mark only one oval.

- $Cl_2$
- $Br_2$
- $I_2$
- $F_2$

99. 99)The electronic configuration of M+2 is 2,8,14. The atomic mass is 56.The no.of neutron is ... 1 point

*Mark only one oval.*

- 30
- 32
- 31
- 28

100. 100)In protein amino acid are joined by... 1 point

*Mark only one oval.*

- peptide bond
- Glycosidic bond
- Phosphodiester bond
- Hydrogen bond

## BOTANY

101. 101)Scientist known as 'Father of Botany is 1 point

*Mark only one oval.*

- Theophrastus
- Lamarck
- Aristotle
- Darwin

102. 102)Fungal symbiotic relationship is 1 point

*Mark only one oval.*

- Coralloid
- Rhizobium
- phycorrhiza
- mycorrhiza

103. 103)Usually, antibiotics have no effect on viruses because they 1 point

*Mark only one oval.*

- kill all bacteria which form host of viruses
- are too small for antibiotics to act on them
- have no metabolism of their own
- produce a thick covering and encyst themselves

104. 104)Most common form of bacteria is 1 point

*Mark only one oval.*

- spirulina
- bacilli
- coccus
- vibrio

105. 105)Gametes produced from mitosis in algae are

1 point

*Mark only one oval.*

- calyptrogametes  
 coenogametes  
 mitogametes  
 gymnogametes

106. 106)White rust of crucifers is caused by

1 point

*Mark only one oval.*

- algae  
 bacteria  
 virus  
 fungi

107. 107)Protonema

1 point

*Mark only one oval.*

- mature antheridia  
 leafy gametophyte  
 juvenile gametophyte  
 algal thread

108. 108)Leaf of fern bearing sporangia is

1 point

*Mark only one oval.*

- gametophore  
 trophophyll  
 sorus  
 sporophyll

109. 109)Advance type of stellar system in gymnosperms is

1 point

*Mark only one oval.*

- dictyostele  
 protostele  
 eustele  
 atactostele

110. 110)Maize and rice belong to the family

1 point

*Mark only one oval.*

- Solanaceae  
 Brassicaceae  
 Liliaceae  
 Graminae

111. 111)Flower is

1 point

*Mark only one oval.*

- condensed shoot
- reproductive condensed shoot
- modified leaves
- vegetative shoot

112. 112)Basic biotic factor for solar conversion is

1 point

*Mark only one oval.*

- primary consumer
- tertiary producer
- tertiary consumer
- producer

113. 113)A fertile soil is likely to have a pH value of

1 point

*Mark only one oval.*

- 3 – 4
- 8 – 9
- 6 – 7
- 10 – 11

114. 114)Natality is

1 point

*Mark only one oval.*

- death
- birth
- growth
- reproduction

115. 115)Xerophytes have

1 point

*Mark only one oval.*

- long roots
- short stems
- thick stems
- all of them

116. 116)Hydrological cycle is also called

1 point

*Mark only one oval.*

- sedimentary cycle
- gaseous cycle
- carbon cycle
- water cycle

117. 117)Best totipotency tissue is

1 point

*Mark only one oval.*

- cork cells
- vessels
- meristem
- fibres

118. 118)The shape of chromosome is distinctly observed at

1 point

*Mark only one oval.*

- metaphase
- anaphase
- prophase
- telophase

119. 119)The functional unit of mitochondria is

1 point

*Mark only one oval.*

- oxysome
- quantasome
- thylakoids
- cristae

120. 120)Cell theory was proposed by

1 point

*Mark only one oval.*

- Schleiden and Schwann
- Hooke and Brown
- Schleiden and Swanson
- Schwann and Swanson

121. 121)Gametes have

1 point

*Mark only one oval.*

- the same amount of DNA as body cells
- twice the amount of DNA as body cells
- half the amount of DNA as body cells
- variable amount of DNA

122. 122)Gene locus is

1 point

*Mark only one oval.*

- position of gene
- types of gene
- alternate of gene
- diploid gene

123. 123)A pair of character is

1 point

*Mark only one oval.*

- trait
- gene
- allele
- locus

124. 124)Progeny of self-fertilized homozygous plant is

1 point

*Mark only one oval.*

- clone
- outbreed
- inbreed
- pure line

125. 125)Autosomal aneuploidy is

1 point

*Mark only one oval.*

- Turner syndrome
- Marfan's disease
- Colour blindness
- Down's syndrome

126. 126)The number of possible gametes from AaBa is

1 point

*Mark only one oval.*

- 2
- 4
- 6
- 8

127. 127)The genes transferred from father to his son is

1 point

*Mark only one oval.*

- supplementary gene
- holandric gene
- complementary gene
- duplicate gene

128. 128)If the diploid number of chromosomes in pea is 14, number of linkage groups present is

1 point

*Mark only one oval.*

- 14
- 7
- 28
- 4

129. 129)The vascular bundle of root is

1 point

*Mark only one oval.*

- collateral
- radial
- conjoint
- leptocentric

130. 130)Diffusion is

1 point

*Mark only one oval.*

- movement of solutes
- movement of solvents
- displacement of water potential
- loss of solutes

131. 131)The source of oxygen in glucose during photosynthesis is

1 point

*Mark only one oval.*

- water
- CO<sub>2</sub>
- RuBP
- glucose

132. 132)Kranz anatomy is found in

1 point

*Mark only one oval.*

- C3 plants
- CAM plants
- C2 plants
- C4 plants

133. 133)The number of ATP produced in cytoplasm is

1 point

*Mark only one oval.*

- 4
- 6
- 2
- 8

134. 134)Common product produced in anaerobic respiration is

1 point

*Mark only one oval.*

- acetic acid
- H<sub>2</sub>O
- lactic acid
- ethanol

135. 135)Hormone responsible for morphogenesis effect is 1 point

*Mark only one oval.*

- ethylene
- cytokinin
- auxin
- gibberellin

136. 136)Diploid pair is 1 point

*Mark only one oval.*

- nucellus and antipodal cells
- synergids, antipodal cells and egg cell
- integuments and synergids
- integument and nucellus

137. 137)The mouth of ovule is 1 point

*Mark only one oval.*

- integument
- micropyle
- funiculus
- chalaza

138. 138)The anther is 1 point

*Mark only one oval.*

- female reproductive part
- male gametophyte
- male reproductive part
- female gametophyte

139. 139)Excessive use of antibiotic causes 1 point

*Mark only one oval.*

- development of mutant strain
- decreased efficiency of the immune system
- inactivation by bacterial enzymes
- insensitivity of the individual

140. 140)A fermentation is 1 point

*Mark only one oval.*

- useful for production of milk
- intracellular respiration
- organisms reacting to a stimulus
- applicable for growth of micro-organisms

ZOOLOGY

141. 141)Irritability and conductivity is a basic property of 1 point

*Mark only one oval.*

- Nervous tissue
- Spinal nerve
- Cranial nerve
- Ganglia

142. 142)Saltatory conduction in associated with 1 point

*Mark only one oval.*

- Sensory fiber
- motor fiber
- Myelinated fiber
- non myelinated fiber

143. 143)In transverse section of adrenal gland the order of arrangement of four layers from outside to inside is 1 point

*Mark only one oval.*

- Capsule, zona glomerulosa, zona fasciculata, zona reticularis
- Capsule, zona glomerulosa, zona reticularis, zona fasciculata
- Capsule, zona reticularis, zona fasciculata, zona glomerulosa
- zona glomerulosa, zona fasciculata, zona reticularis capsule

144. 144)Phagocytic cell of liver 1 point

*Mark only one oval.*

- Von Kuffer cell
- Lymphocyte
- Dust cell
- Microglia

145. 145)In mucosa region of stomach, there are several kinds of secretion from different cell types. Which of the following cell types secrete HCl? 1 point

*Mark only one oval.*

- Chief cell
- Argentaffin cell
- Parietal cell
- Goblet cell

146. 146)Retina consists of \_\_\_\_\_ layers. 1 point

*Mark only one oval.*

- 2
- 6
- 8
- 10

147. 147)Epistaxis is \_\_\_\_\_

1 point

*Mark only one oval.*

- bleeding from nose
- bleeding from rectum
- blood in cough
- blood in vomiting

148. 148)Water rice diarrhea present in

1 point

*Mark only one oval.*

- Typhoid
- Cholera
- malaria
- HIV

149. 149)Kidney received..... ml of blood per minute .

1 point

*Mark only one oval.*

- 1250ml
- 1000ml
- 2000 ml
- 1500ml

150. 150)Deficiency of Vitamin B1 causes

1 point

*Mark only one oval.*

- Beri Beri
- Pellagra
- Scurvy
- Pernicious Anemia

151. 151)Chromaffin cell of adrenal medulla secretes

1 point

*Mark only one oval.*

- Adrenaline
- Insulin
- Glucagon
- Thyroxin

152. 152)Total number of cranial nerves in human body

1 point

*Mark only one oval.*

- 24
- 12
- 36
- 18

153. 153)Which of the following is not granulocyte?

1 point

*Mark only one oval.*

- Neutrophil
- Basophil
- Eosinophils
- Lymphocyte

154. 154)Lining of urinary bladder

1 point

*Mark only one oval.*

- Simple squamous epithelium
- simple columnar Epithelium
- cuboidal epithelium
- Transitional epithelium

155. 155)Tumor of fat cell is

1 point

*Mark only one oval.*

- Lymphoma
- Leukemia
- Lipoma
- Melanoma

156. 156)Hansen's disease is

1 point

*Mark only one oval.*

- Leprosy
- Typhoid
- TB
- Cholera

157. 157)Confirmatory test for HIV

1 point

*Mark only one oval.*

- ELISA
- Western blotting
- Southern blotting
- None

158. 158)Mydriatic drug causes

1 point

*Mark only one oval.*

- Dilation of pupil
- Constriction of pupil
- Dilation of lens
- Constriction of lens

159. 159)Which of the following organells are associated for defence in Protozoans? 1 point

*Mark only one oval.*

- Nematocysts
- Statocysts
- Trichocysts
- Otocysts

160. 160)Sepia is the zoological name of 1 point

*Mark only one oval.*

- Dog fish
- Silver fish
- Cuttle fish
- Devil fish

161. 161)Malpighian tubules are 1 point

*Mark only one oval.*

- Frog's excretory organ
- Insect's excretory organ
- Insect's respiratory organ
- Insect's endocrine organ

162. 162)Which of the following statements is true? 1 point

*Mark only one oval.*

- All chordates are vertebrates
- All vertebrates are chordates
- Non-chordates have a vertebral column
- Invertebrates posses a tubular nerve cord

163. 163)Which of the following is a catadromous fish? 1 point

*Mark only one oval.*

- Hilsa spp.
- Anguila spp
- Gobies fish
- Channa spp

164. 164)Echinodermata is a group of animals which are 1 point

*Mark only one oval.*

- Coelomate, spiny and marine
- Acoelomate, spiny and marine
- Coelomate, horny and marine
- Jointed legged, coelomate and marine

165. 165)One of the following is not a nematode parasite? 1 point

*Mark only one oval.*

- Trichinella  
 Ascaris  
 Schistosoma  
 Dracunculus

166. 166)Cestodes are distinguished from other flatworms by the absence of 1 point

*Mark only one oval.*

- nervous system  
 digestive system  
 excretory system  
 reproductive system

167. 167)In Hydra undigested food and nitrogenous waste materials are removed from 1 point

*Mark only one oval.*

- mouth and body wall  
 mouth and tentacles  
 mouth and nematocyst  
 tentacles and body wall

168. 168)Which one is the closest relative of modern man today? 1 point

*Mark only one oval.*

- Gorilla  
 Gibbon  
 Orangutan  
 Sinanthropus

169. 169)According to Darwin, evolution is 1 point

*Mark only one oval.*

- a sudden but discontinuous process  
 a slow, gradual and continuous process  
 a slow, sudden and discontinuous process  
 a slow and discontinuous process

170. 170)First life on the earth were 1 point

*Mark only one oval.*

- Autotrophs  
 Cyanobacteria  
 Photoautotrophs  
 Chemoheterotrophs

171. 171) Study of lizards 1 point

*Mark only one oval.*

- Sarcology  
 Saurology  
 Serpentology  
 Syndesmology

172. 172) Gametocytes of malarial parasite form in 1 point

*Mark only one oval.*

- stomach of female Anopheles  
 stomach of male Anopheles  
 blood of man  
 liver cells of man

173. 173) In benign tertian fever, the erythrocytic schizogony begins with the entry of 1 point

*Mark only one oval.*

- Sporozoite  
 Trophozoite  
 Micro-metacrypto merozoite  
 Macro-metacrypto merozoite

174. 174) In Pheretima, the cells that are analogous to hepatic cells of vertebrates are 1 point

*Mark only one oval.*

- Amoeboid cells  
 Chromophil cells  
 Chloragogen cells  
 Circular cells

175. 175) In the earthworm 1 point

*Mark only one oval.*

- integumentary and pharyngeal nephridia are exonephric  
 integumentary and septal nephridia are enteronephric  
 pharyngeal and septal nephridia are enteronephric  
 pharyngeal and septal nephridia are exonephric

176. 176) Fertilization in Pheretima posthuma occurs in 1 point

*Mark only one oval.*

- Spermathecae  
 Cocoon  
 Coelom  
 Seminal vesicles

177. 177) Presence of chloride cells, lateral line sense organs are the adaptive feature of 1 point

*Mark only one oval.*

- amphibious adaptation
- aquatic adaptation
- volant adaptation
- cursorial adaptation

178. 178) Venous system of frog differ from that of mammal in the presence of 1 point

*Mark only one oval.*

- hepatic portal system
- renal portal system
- three venacava
- hepatic vein

179. 179) Mesorchium refers to 1 point

*Mark only one oval.*

- capsule in testis of frog
- capsule in ovary of rabbit
- a peritoneal fold that connects testis and kidney in frog
- a peritoneal fold that connect ovary and kidney in frog

180. 180) At the end of first meiotic division, the male germ cell differentiated into 1 point

*Mark only one oval.*

- spermatogonium
- secondary spermatocyte
- primary spermatocyte
- spermatid

**MATT**

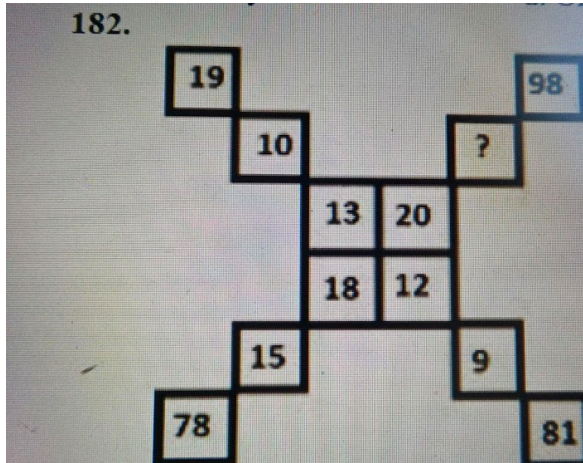
181. 181) Odd one out of the following? 1 point
- a. Blood b. Kidney c. Heart d. Liver
- e. Lungs

*Mark only one oval.*

- Only A
- Only B
- Only C
- Only D

182. 182)

1 f



Mark only one oval.

- 15
- 17
- 21
- 34

183. 183) Arrange in correct logical order  
 a. Poverty b. Population c. Death  
 d. Unemployment e. Disease

1 point

Mark only one oval.

- (c) (d) (b) (e) (a)
- (b) (d) (a) (e) (c)
- (d) (c) (a) (b) (e)
- (b) (d) (c) (a) (e)

184. 184) Statements:

1 point

- All the schools in the area had to be kept closed for most part of the week.
- Many parents have withdrawn their children from the local schools.

Mark only one oval.

- Statement I is the cause and statement II is its effect
- Statement II is the cause and statement I is its effect
- Both the statements I and II are independent causes
- Both the statements I and II are effects of independent causes

185. 185) Go to school = 125, Far from school = 146, Run to school = 135, then code for run is

1 point

Mark only one oval.

- 3
- 4
- 5
- 6

186. 186) From a point P on a level ground, the angle of elevation of the top tower is 30°. If the tower is 100m high, the distance of point P from the foot of the tower is 1 point

Mark only one oval.

- 149 m  
 156 m  
 173 m  
 200 m

187. 187) In how many ways the letter of the word 'LEAOER' can be arranged? 1 point

Mark only one oval.

- 120  
 240  
 360  
 720

188. 188) Light is seen at interval of 13 second, it first seen at 1 hour 54 min 50 sec then up to 3 hour 17 min 49 sec, how many times light is seen? 1 point

Mark only one oval.

- 384  
 576  
 724  
 872

189. 189) Four men working together can dig a ditch in 42 days. They begin but one man works only half days. How long will, it take to complete the same job? 1 point

Mark only one oval.

- 42 days  
 45 days  
 48 days  
 52 days

190. 190) The difference in present age of father and son is 60 years. Ten years ago, father was seven times his son. Find the present age of son. 1 point

Mark only one oval.

- 18 years  
 20 years  
 22 years  
 25 years

191. 191) X, W, Y, Z, B, A, C, D, ...? 1 point

Mark only one oval.

- E  
 F  
 G  
 H

192. 192)6, 13, 32, .....?

1 point

*Mark only one oval.*

- 67
- 69
- 77
- 79

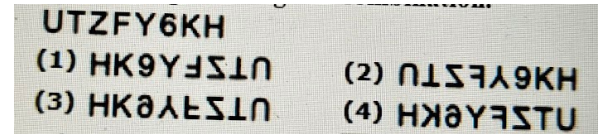
193. 193)In a class of students, Sandeep is 25th from top and 32th from bottom in a class. The total number of students in the class is:

1 point

*Mark only one oval.*

- 56
- 50
- 57
- 58

194. 194)Choose the alternative which is closely resembles the mirror image of the given combination. 1 p

*Mark only one oval.*

- 1
- 2
- 3
- 4

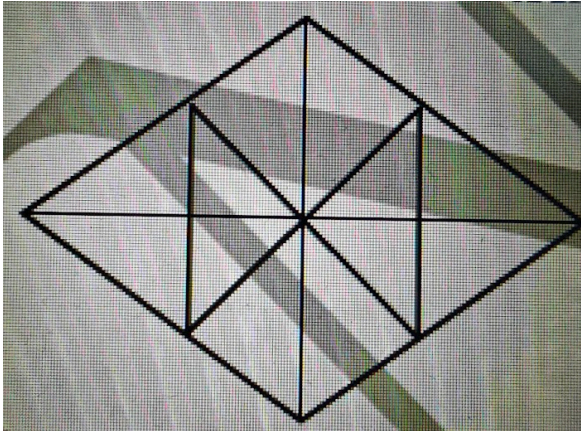
195. 195)You have 12 coins &amp; the one is tampered one. If weighing balance can measure two coins at once then for how many times you should weight to find out the weight of tempered one? 1 point

*Mark only one oval.*

- 6 times
- 9 times
- 5 times
- 3 times

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

1 f

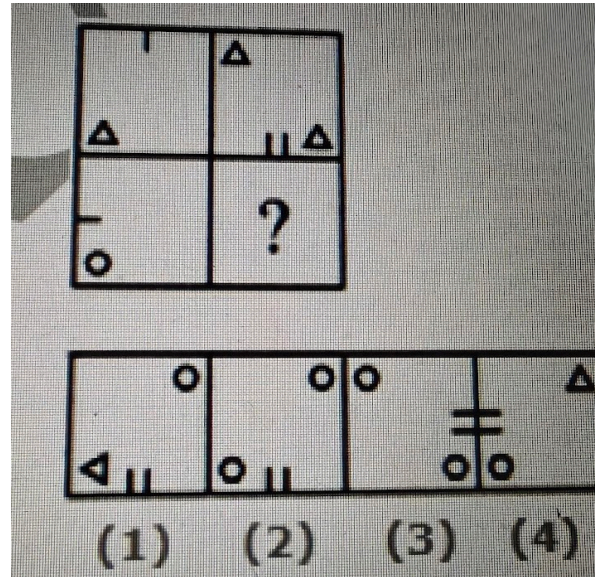


Mark only one oval.

- 16
- 24
- 28
- 32

197. 197) Select suitable figure from the four alternative that would complete the figure.

1 f



Mark only one oval.

- 1
- 2
- 3
- 4

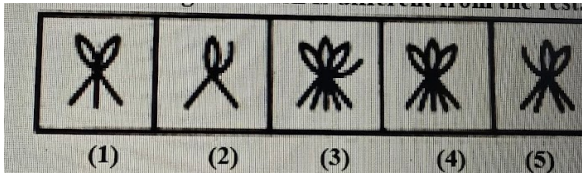
198. 198) Choose the box that is similar to the box formed from the given sheet of paper (X). 1 f



Mark only one oval.

- 1 only
- 1, 2 and 3 only
- 2 and 3 only
- 1, 2, 3 and 4

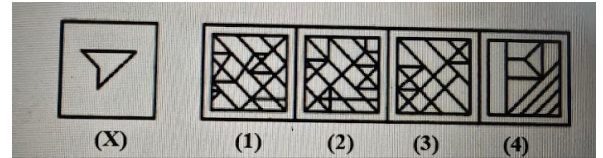
199. 199) Choose the figure which is different from the rest. 1 f



Mark only one oval.

- 1
- 2
- 3
- 4

200. 200) Find out the alternative figure which contains figure (X) as its part. 1 f



Mark only one oval.

- 1
- 2
- 3
- 4

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