

## Set - 5 Full Length Test - 2026

By CEE Nepal Preparation

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

Mark only one oval.

- Electric potential
- Force
- Torque
- Potential gradient

3. 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.

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

4. 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

5. 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

6. 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.

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

7. 6) Which of the following is invert gate? 1 point

Mark only one oval.

- NOT
- NOR
- OR
- NAND

8. 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

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

1 point

*Mark only one oval.*

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

10. 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.*

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

11. 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

12. 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

13. 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

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

1 point

Mark only one oval.

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

15. 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.

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

16. 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.

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

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

1 point

Mark only one oval.

- Fermion
- Boson
- Lepton
- Hadron

18. 17) Nuclear fission is initiated by..

1 point

Mark only one oval.

- Neutron
- Photon
- Electron
- Proton

19. 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.

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

20. 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

21. 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

22. 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  $V_e$

23. 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

24. 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.

- $f_1 f_2 / (f_1 + f_2)$
- $f_1 - f_2$
- $f_1 + f_2$
- $f_1 + f_2 / f_1 f_2$

25. 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

26. 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

27. 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

28. 27) A man heard thunder 6 seconds later after he saw a lightning. 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

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

Mark only one oval.

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

30. 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

31. 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
- $1:1/\pi^2 : 9/\pi$
- $1:4/9\pi^2 : 4/25\pi^2$

32. 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.

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

33. 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.

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

34. 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

35. 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.

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

36. 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  $\pi/2$

37. 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.

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

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

Mark only one oval.

- 1.58 $\Omega$
- 2.62 $\Omega$
- 22.6 $\Omega$
- 15.8 $\Omega$

39. 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

40. 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%

41. 40) A slab of thickness 't' ( $t < d$ ) of dielectric constant '5' is introduced between the plates of 10  $\mu\text{F}$  capacitor then, the new capacitance will be.. 1 point

Mark only one oval.

- 50 $\mu\text{F}$
- 200 $\mu\text{F}$
- 100 $\mu\text{F}$
- 400 $\mu\text{F}$

42. 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

43. 42)

1 po

In a radioactive disintegration, if mother nucleus  $ZX^A$  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

44. 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%

45. 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

46. 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

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

Mark only one oval.

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

48. 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

49. 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.

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

50. 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

51. 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

52. 51) Nylon 6,6 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

53. 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

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

Mark only one oval.

- Ti
- Cd
- Fe
- Br

55. 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

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

1 point

Mark only one oval.

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

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

1 point

Mark only one oval.

- Acetone
- Acetaldehyde
- Nitric acid
- Phenol

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

1 point

Mark only one oval.

- Ethene
- Carboanion
- Carbene
- Hydrogen ethyl sulphate

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

1 point

Mark only one oval.

- Diamond
- Graphite
- Fullerenes
- Anthracite

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

1 point

Mark only one oval.

- Urea
- Hydrazine
- Azobenzene
- Phenylhydrazine

61. 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

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

1 point

*Mark only one oval.*

- Si
- V
- Ti
- C

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

1 point

*Mark only one oval.*

- Ca
- Hg
- Fe
- Pb

64. 63)On Ozonolysis, benzene gives:

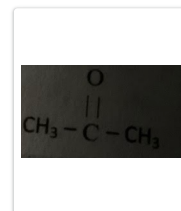
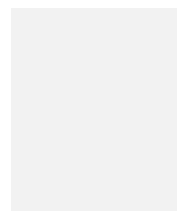
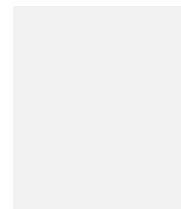
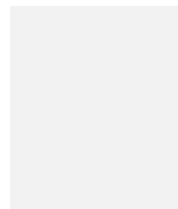
1 point

*Mark only one oval.*

- Only ethanol
- Ethanal
- Methanal
- Ethenedial

65. 64)Which of the following give cannizzaro reaction?

1 point

*Mark only one oval.*

66. 65) Nitrobenzene is

1 point

*Mark only one oval.*

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

67. 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

68. 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

69. 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

70. 69) Heterolytic fission gives..

1 point

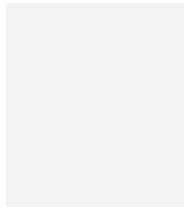
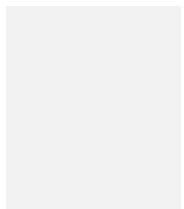
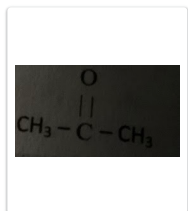
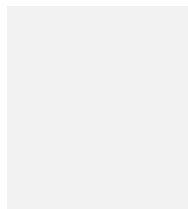
*Mark only one oval.*

- Carbocation
- Ions
- Free radicals
- Carbocation and carbanion

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

1 point

Mark only one oval.

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

72. 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
- $\Delta H = T \Delta S$
- $\Delta H - T \Delta S = 0$

73. 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

74. 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

75. 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>

76. 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

77. 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

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

Mark only one oval.

- 16
- 32
- 10
- 40

79. 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

80. 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>

81. 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

82. 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.

83. 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

84. 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>

85. 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

86. 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

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

Mark only one oval.

- Doubled
- Halved
- Quadrupled
- Constant

88. 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

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

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

90. 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

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

1 point

*Mark only one oval.*

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

92. 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

93. 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

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

1 point

*Mark only one oval.*

- Chromophore
- Cytochrome
- Chromogens
- Auxochrome

95. 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

96. 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

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

1 point

*Mark only one oval.*

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

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

1 point

*Mark only one oval.*

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

99. 98) Halogen with highest electron affinity is:

1 point

*Mark only one oval.*

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

100. 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

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

*Mark only one oval.*

- peptide bond
- Glycosidic bond
- Phophodiester bond
- Hydrogen bond

## BOTANY

102. 101)Cystic fibrosis is: 1 point

*Mark only one oval.*

- Auto immune disease
- genetic disorder
- Communicable disease
- non-communicable disease

103. 102)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

104. 103)All are true for cruciferae except: 1 point

*Mark only one oval.*

- Didynamous
- False septum
- six stamens
- Tetradynamous

105. 104)All of the following are aneuploidy except 1 point

*Mark only one oval.*

- Turners syndrome
- Down syndrome
- Phenylketonuria
- Klinefelters syndrome

106. 105) At meiosis, centromere separation occurs at:

1 point

*Mark only one oval.*

- prophase II
- Anaphase II
- Metaphase II
- Telophase II

107. 106) Which of the following is diploid spore?

1 point

*Mark only one oval.*

- Zygospor
- zoospore
- Ascospore
- Basidiospore

108. 107) The possible blood group of offspring if father has blood group A and mother has blood group B:

1 point

*Mark only one oval.*

- A,AB
- B,AB
- A,B,O
- A,B,AB,O

109. 108) Which of the following is produced during photophosphorylation?

1 point

*Mark only one oval.*

- ATP
- ATP and NADPH<sub>2</sub>
- ATP:H<sub>2</sub>O
- H<sub>2</sub>O AND O<sub>2</sub>

110. 109)DNA is made up of:

1 point

*Mark only one oval.*

- pentose sugar+Nitrogen base
- Nucleoside
- Nucleoside+sugar
- nucleoside+phosphate

111. 110) Cucurbits have:

1 point

*Mark only one oval.*

- Collateral vascular bundle
- Bicolateral Vascular bundle
- Radial vascular bundle
- Concentric vascular bundle

112. 111) Both are benefitted by each other and cannot live without one: 1 point

*Mark only one oval.*

- proto-cooperation
- Mutualism
- Commensalism
- Antibiosis

113. 112) In DNA if cytosine is 10%, amount of thymine is: 1 point

*Mark only one oval.*

- 10%
- 20%
- 40%
- 50%

114. 113) velamen tissue are found in: 1 point

*Mark only one oval.*

- Xerophyte
- Epiphyte
- Hydrophyte
- Mesophyte

115. 114) pyramid of energy is: 1 point

*Mark only one oval.*

- spindle shape
- always erect
- inverted
- sometimes erect

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

*Mark only one oval.*

- Topoisomerase
- Helicase
- Unwindase
- Restriction endonuclease

117. 116) Grafting is not possible in monocot due to: 1 point

*Mark only one oval.*

- Absence of cambium
- Scattered vascular bundle
- Having smaller stem
- Lack of vascular tissue

118. 117) Which one is used in culture medium?

1 point

*Mark only one oval.*

- Laminaria
- Gelidium
- Alginic acid
- Spirulina

119. 118) Which of the following is disaccharide?

1 point

*Mark only one oval.*

- Maltose
- glucose
- cellulose
- Starch

120. 119) In maize male anther matures faster than female stigma, maize is

1 point

*Mark only one oval.*

- Heterostyly
- Herkogamy
- protandry
- protogyny

121. 120) Gemma cup found in

1 point

*Mark only one oval.*

- cycas
- funaria
- mosses
- marchantia

122. 121) A colorblind man marries a normal woman whose father was colorblind, then the probability of son to be colorblind is

1 point

*Mark only one oval.*

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

123. 122) In photosynthesis,  $O_2$  is evolved from water during:

1 point

*Mark only one oval.*

- Oxidative photophosphorylation
- photolysis of water
- Excitation of electron
- Excitation of cell

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

*Mark only one oval.*

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

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

*Mark only one oval.*

- Biomagnification  
 Eutrophication  
 Nitrification  
 Denitrification

126. 125) When pyruvic acid is changed to acetyl CoA, it is: 1 point

*Mark only one oval.*

- Oxidized  
 Reduced  
 isomerized  
 Rearrangement

127. 126) Which of the following has narrow lumen? 1 point

*Mark only one oval.*

- Fibres  
 sclereids  
 Tracheids  
 Vessels

128. 127) Blocking of sieve tube of phloem is due to: 1 point

*Mark only one oval.*

- Tyloses  
 Callose  
 Aerenchyma  
 Collenchyma

129. 128) If number of chromosome in Pisum sativum is  $2n=14$ , then the number of linkage groups is: 1 point

*Mark only one oval.*

- 14  
 7  
 8  
 15

130. 129) Which chromosome has centromere at center?

1 point

*Mark only one oval.*

- metacentric
- sub-metacentric
- telocentric
- acrocentric

131. 130) The contents of cell is expelled out through the cell membrane, the process is called:

1 point

*Mark only one oval.*

- phagocytosis
- pinocytosis
- endocytosis
- exo-cytosis

132. 131) In papilionaceous, the outer large corolla is:

1 point

*Mark only one oval.*

- keel
- standard
- wings
- alae

133. 132) Hybrid form genetically distinct plants is not possible by traditional plant breeding method but can be obtained by:

1 point

*Mark only one oval.*

- Somatic hybridization
- Genetic engineering
- inbreeding
- outbreeding

134. 133) Which of the following has same genotypic and phenotypic ratio?

1 point

*Mark only one oval.*

- co-dominance
- complete dominance
- Epistasis
- Dihybrid cross

135. 134) A bacteria divides every 35 minutes. If a culture containing  $10^5$  cells per ml is grown for 175 min, what will be the cell concentration per ml after 175 minutes?

1 point

*Mark only one oval.*

- $32 \times 10^5$  cells
- $175 \times 10^5$  cells
- $64 \times 10^5$  cells
- $16 \times 10^5$  cells

136. 135) If a cross is made between diploid (2n) female and tetraploid (4n) male, the resultant endosperm will be: 1 point

*Mark only one oval.*

- 2n
- 3n
- 4n
- 5n

137. 136) Compounds which help in metabolic reactions without itself being changed is: 1 point

*Mark only one oval.*

- Enzyme
- Hormone
- Nucleic acid
- Nucleoprotein

138. 137) Chemical causing chromosomal abnormality is called 1 point

*Mark only one oval.*

- Mutagen
- Mutation
- Mutant
- Nucleoprotein

139. 138) Which of the following unwinds DNA molecule? 1 point

*Mark only one oval.*

- Helicase
- primase
- Folic acid
- Ligase

140. 139) Animals found at bottom of the sea are called 1 point

*Mark only one oval.*

- Benthos
- Cryptosoma
- Phytoplankton
- Littoral

141. 140) Choose the correct succession type from the given options considering the sequence of different stages as below:  
Crustose lichen---Follicular lichen---moss---herbs---shrub---mesophytic tree (climax) 1 point

*Mark only one oval.*

- Hydrosere
- Psammose
- xerosere
- Halosere

142. 141)The increasing order of complexity in canal system of porifera is 1 point

*Mark only one oval.*

- ascon,sycon,leucon
- sycon,leucon,Ascon
- leucon,sycon,ascon
- ascon,leucon,sycon

143. 142)Amphids present in ventrolateral lips of ascaris is: 1 point

*Mark only one oval.*

- chemoreceptor
- gustatoreceptor
- olfactoreceptor
- Tactoreceptor

144. 143)An infected female anopheles mosquito can infect a healthy man when: 1 point

*Mark only one oval.*

- Gametogony is completed
- sporogony is completed
- erythrocytic cycle is completed
- erythrocytic cycle is just started

145. 144)Echinodermata are brainless,heartless and headless; yet from evolutionary point of view,they have been placed on the top of invertebrates because they: 1 point

*Mark only one oval.*

- have great power of regeneration
- have exclusively marine habit
- are enterocoelomate
- ammonotelic

146. 145) Which of the following is vertebrate? 1 point

*Mark only one oval.*

- cuttle fish
- globe fish
- cray fish
- devil fish

147. 146)Intraocular pressure in eye is measured by: 1 point

*Mark only one oval.*

- tonometer
- barometer
- sphygmomanometer
- spirometer

148. 147)Apes are dissimilar from human due to:

1 point

*Mark only one oval.*

- menstruation in female
- absence of prominent chin
- smaller lumbar region
- absence of tail

149. 148)If the concentration of urea is less than normal in amount of a person, this can be due to:

1 point

*Mark only one oval.*

- He is on longer hunger strike
- Renal calculi
- Deficiency of ADH
- Bright disease

150. 149) Recapitulation theory,"ontogeny repeats phylogeny" was proposed by:

1 point

*Mark only one oval.*

- Haeckel
- hugo de vries
- darwin
- lamarck

151. 150)Grinding organ of earthworm is:

1 point

*Mark only one oval.*

- pharynx
- gizzard
- stomach
- intestine

152. 151)intestinal caeca is present in:

1 point

*Mark only one oval.*

- 30 th segment
- 14th,15th,16th segments
- 27th segment
- 26th segment

153. 152)Which of the following gland is only present in reptiles?

1 point

*Mark only one oval.*

- Mucous gland
- Femoral gland
- Sebaceous gland
- Uropygial gland

154. 153)All are true except:

1 point

*Mark only one oval.*

- Blue whale:Ammonotelic
- Lizard: ureotelic
- Human:ureotelic
- Aves:ureotelic

155. 154)A boy sustained an accident and needs emergency blood and doesnot know the blood group. A doctors friend after consulting the doctor donated him blood immediately. The blood group doctor friend must have is:

1 point

*Mark only one oval.*

- O-
- AB+
- O+
- AB-

156. 155) If the fallopian is blocked,which of the following method is used to produce baby?

1 point

*Mark only one oval.*

- GIFT
- IVF
- VIFT
- SVT

157. 156)4S gland:

1 point

*Mark only one oval.*

- pancreas
- pituitary
- hypothalamus
- adrenal gland

158. 157)Areolar tissue connects

1 point

*Mark only one oval.*

- bone to bone
- muscles to bone
- integument and muscles
- muscles to fat

159. 158)Which one carries impulse towards CNS?

1 point

*Mark only one oval.*

- Auditory
- abducens
- trochlear
- ventral root horn of spinal cord

160. 159) If the mastication area is paralyzed, which of the following nerves is affected? 1 point

*Mark only one oval.*

- optic
- trigeminal
- oculomotor
- vagus

161. 160) Which of the following cells is not a part of CNS? 1 point

*Mark only one oval.*

- Microglial cell
- schwann cell
- ependymal cell
- astrocyte cell

162. 161) A pap smear is done around vagina and cervix; what kind of tissue may line those areas? 1 point

*Mark only one oval.*

- simple cuboidal
- keratinized squamous epithelium
- squamous epithelium
- pseudostratified columnar epithelium

163. 162) Thyroid gland is lined by: 1 point

*Mark only one oval.*

- simple cuboidal epithelium
- simple columnar epithelium
- squamous epithelium
- pseudostratified columnar epithelium

164. 163) The stomach of a frog is attached to the dorsal wall by means of a mesentery called: 1 point

*Mark only one oval.*

- oxygaster
- endogaster
- mesogaster
- megagaster

165. 164) Mucin present in saliva is: 1 point

*Mark only one oval.*

- Glycoprotein
- lipoprotein
- phosphoprotein
- chromoprotein

166. 165) Which of the following sets of disease is viral disease?

1 point

*Mark only one oval.*

- Typhoid,TB
- AIDS,kala-azar
- common cold,Herpes
- Pneumonia and TB

167. 166)Body cavity of Echinodermata is formed by:

1 point

*Mark only one oval.*

- splitting of mesodermal band
- arrangement of mesenchymal cells
- persistent blastocoel
- archenteron pouch in larval stage

168. 167)specific antibodies are extracted for the diagnosis of cancer in early days. These antibodies are called

1 point

*Mark only one oval.*

- monoclonal antibody
- polyclonal antibody
- myelonal antibody
- biclonal antibody

169. 168) Enterokinase differs from other intestinal juice like Erepsin,Maltase,lactase etc as:

1 point

*Mark only one oval.*

- It is an enzyme
- It is an intestinal juice
- It needs to be activated
- It does not digest food

170. 169)Digestion of protein gives:

1 point

*Mark only one oval.*

- Glucose
- Amino acid
- maltose
- Glycerol

171. 170)If there is deficiency of Iodine,then metamorphosis of tadpole of frog:

1 point

*Mark only one oval.*

- delays
- stops
- accelerates
- No change

172. 171) All are true for dengue and malaria except: 1 point

*Mark only one oval.*

- both are viral diseases
- sudden fever
- both are caused by bite of mosquito
- muscular pain

173. 172) muscle co-ordination and control is done by: 1 point

*Mark only one oval.*

- cerebrum
- cerebellum
- pons
- medulla oblongata

174. 173) Na-K+ ATPase pump pumps 3Na+ outside the axoplasm and K+ outside the axoplasm and K+ inside the axolemma. If 3Na+ atom is pumped out, but only one k+ atom is pumped inside, the axoplasm would be: 1 point

*Mark only one oval.*

- more positive
- more negative
- neutral
- same charge

175. 174) Human embryo has pharyngeal gill slits and tail. This represents that: 1 point

*Mark only one oval.*

- Mammals have evolved from fish like ancestor
- Fish and mammals are not related
- both fish and mammal have common ancestor
- Fish have evolved from mammals

176. 175) Darwin believed that certain part of body become more larger and complex through generations because they 1 point

*Mark only one oval.*

- are used more extensively than other parts
- contribute to greater reproductive success
- are predetermined to do so
- are most similar to gods perfections

177. 176) Although aves have small lungs, they can respire effectively as exchange of gases takes place in: 1 point

*Mark only one oval.*

- Air sacs
- Alveoli
- open capillaries
- Blood

178. 177)All are the function of Na+ except 1 point

Mark only one oval.

- It binds with glucose
- produces protein and enzymes
- nerves impulse conduction
- Regulates heart activity

179. 178)If earthworm is pricked by needle, then which fluid comes out of its body: 1 point

Mark only one oval.

- coelomic fluid
- blood
- lymph
- plasma

180. 179)Highly concentrated urine is formed: 1 point

Mark only one oval.

- Low ADH secretion
- polyuria
- By drinking a lot of water
- More number of juxtamedullary nephrons

181. 180)You are going on a shivapuri hike with few of your friend. what type of food you would prefer for sustain/peristent source of energy? 1 point

Mark only one oval.

- complex carbohydrate from whole grain
- sugar containing chocolate,bar
- sporty drinks
- fiber containing carbohydrates

MATT

182. 181)Find the nth term of the following sequence: 1 point  
5,9,13,17,.....

Mark only one oval.

- $4n+1$
- $2n$
- $2n+1$
- $4n-2$

183. 182)The average of five consecutive numbers A,B,C,D AND E IS 48. Then, the product of A and E is... 1 point

Mark only one oval.

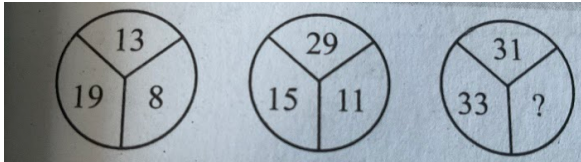
- 2300
- 2400
- 2350
- 2332

184. 183) Rashmi set the time in a clock correctly at 10AM. In every hour, the clock gains 12 minutes. Find out the correct time if the clock shows 1PM? 1 point

Mark only one oval.

- 11:30am  
 12:15pm  
 12:30pm  
 1:30pm

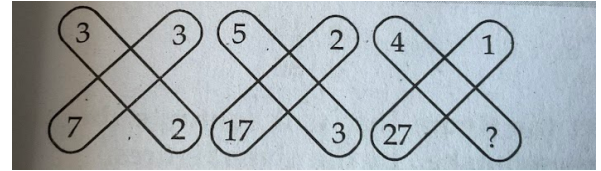
185. 184) Find the missing number. 1 point



Mark only one oval.

- 6  
 12  
 14  
 16

186. 185) Choose the appropriate option of fill in the blank given below: 1 point

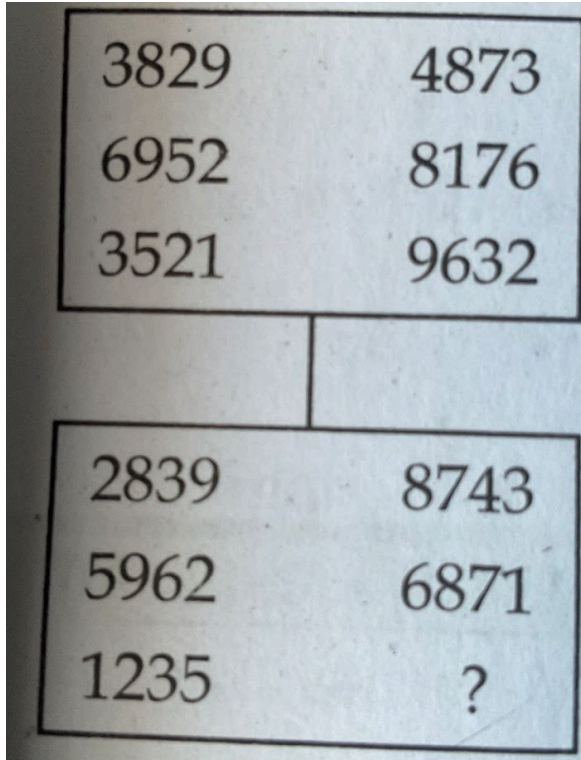


Mark only one oval.

- 4  
 6  
 7  
 9

187. 186) Find the missing number:

1 f

*Mark only one oval.*

- 2639
- 3971
- 3212
- 2760

188. 187) Eight friends are sitting around a round table at equal angles. Bikesh is facing south. Shyam and sajan are at the left and right of Bikesh respectively. Pooja is not adjacent to Ram who is facing east. Sita is third to the right of Hari. Kamal is opposite to Sajan. Then who is opposite to Bikesh? 1 point

*Mark only one oval.*

- Shyam
- Hari
- Pooja
- Kamal

189. 188) A has one and a half more as B. B has one and a half more than C. The total amount of gold is 76 ounces. Then find, how many gold in ounces does these individuals have each respectively? 1 point

*Mark only one oval.*

- 38,22,16
- 36,24,16
- 40,24,12
- 46,22,18

190. 189) Son wants to buy a dog but his parents say:

1 point

(I) It is not allowed in the quarter of office.

(II) I will buy aquarium for you

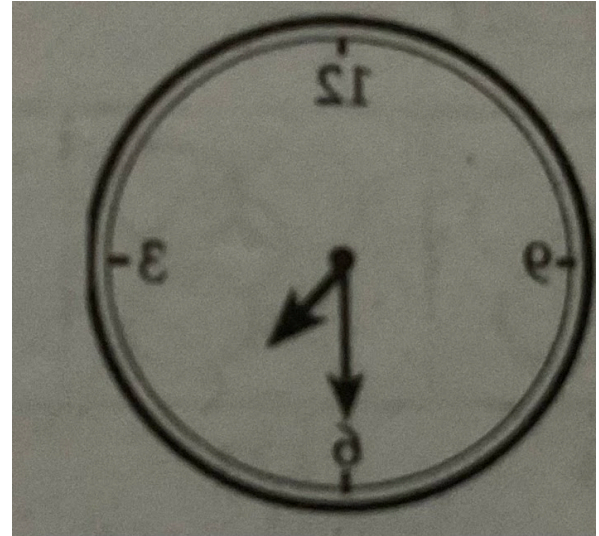
What should be concluded from above statement?

Mark only one oval.

- parents like fish more than dog.
- They live in quarter
- Son get the fish
- Parents didn't like dog

191. 190) The mirror image of a clock is given. What time is shown on the clock?

1 p



Mark only one oval.

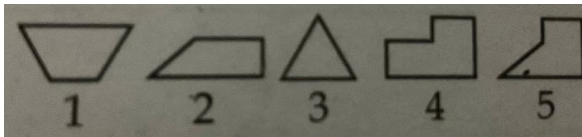
- 6:30
- 6:00
- 5:30
- 8:30

192. 191) Sanjeev takes 8 hours to copy 50 pages manuscript while sandesh can copy the same manuscript in 6 hours. How many would it take them to copy similar 100 pages manuscript, if they work together? 1 point

Mark only one oval.

- 68/7
- 48/7
- 32/3
- 14

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



Mark only one oval.

- 123
- 125
- 234
- 145

194. 193) In search of his father, Jenish started moving 90m east then turned right and went 20m. After this, he again turned right, after going 30m he reached to his uncle's house but didn't meet his father. From there he started moving towards North and moved 100m and met his father. How far did he meet his father from the starting point? 1 point

Mark only one oval.

- 80m
- 100m
- 140m
- 260m

195. 194) Which of the following will continue the given series? 1 point  
1/3, 7/10, 13/17, 19/24, ?

Mark only one oval.

- 25/31
- 25/30
- 26/30
- 27/35

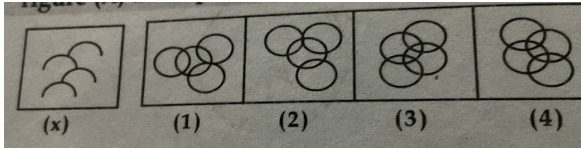
196. 195) Artist : Brush :: Scribe : .... 1 point

Mark only one oval.

- Book
- Paper
- Word
- Pen

197. 196) Find out the alternative figure which contains figure (X) as its part

1 f



Mark only one oval.

- 1
- 2
- 3
- 4

198. 197) A train is travelling at the speed of 90 mph enters a tunnel 3.5 miles long. The length of the train is 0.25 miles. How long does it take for all of the train to pass throughout the tunnel, from the moment it enters until emerging out completely?

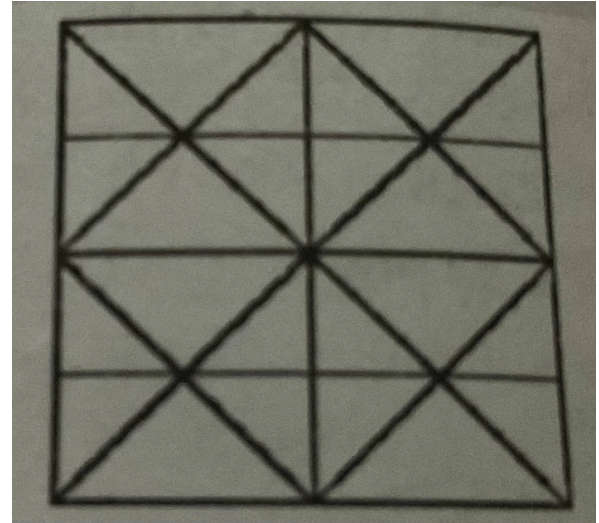
1 point

Mark only one oval.

- 2.5 min
- 2 min
- 2.32 min
- 3 min

199. 198) Count the number of squares in the given figure.

1 f



Mark only one oval.

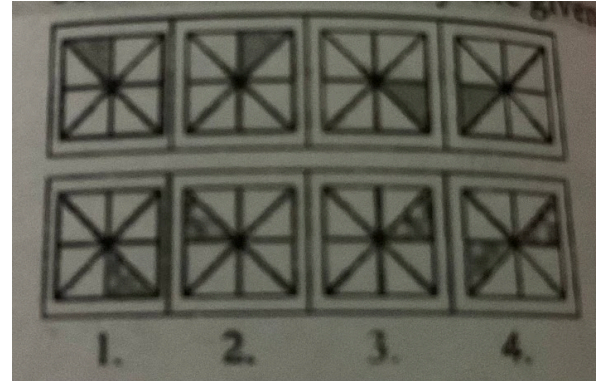
- 5
- 10
- 12
- 14

200. 199) A queue of 50 students is made placing all girls at first and then followed by the boys. If Sambridhi is ranked 36th from last and she is at the bottom place from the girls then, What is the number of boys in that queue? 1 point

Mark only one oval.

- 14
- 15
- 35
- 36

201. 200) Select the figure that will continue the same series established by the given figures. 1 p



Mark only one oval.

- 4
- 3
- 2
- 1

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