

## Set - 8 Full Length Test - 2026

By CEE Nepal Preparation

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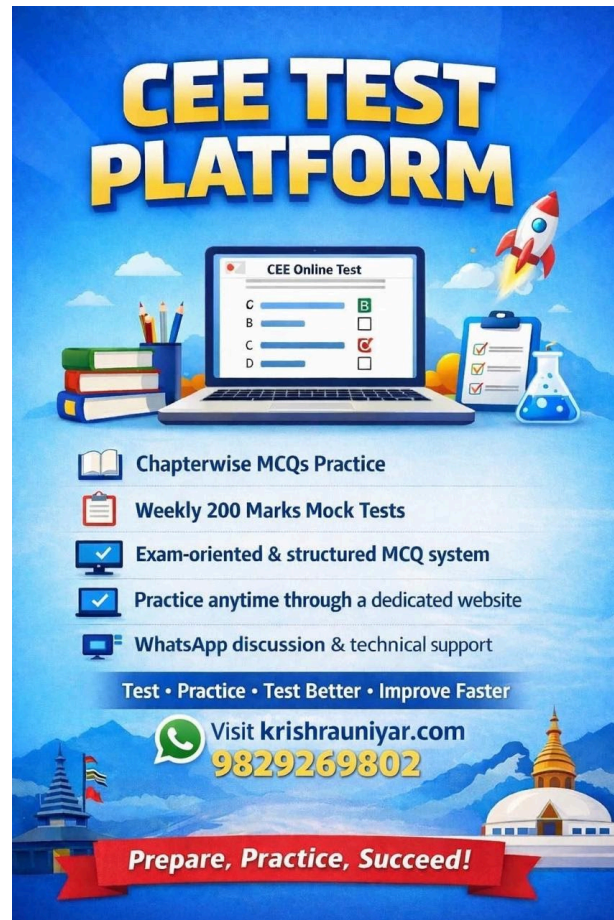
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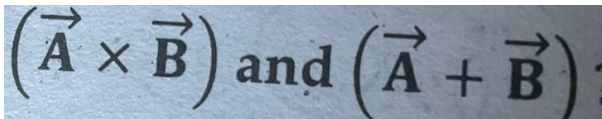
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## PHYSICS

2. 1) What is the angle between

1 point



Mark only one oval.

- 0°  
 45°  
 180°  
 90°
3. 2) Two bullets are fired horizontally from the same height with different velocities. Which bullet will reach the ground first?

1 point

Mark only one oval.

- Faster one  
 Slower one  
 Both simultaneously  
 Can not be predicated

4. 3) A machine gun has a mass 5kg. It fires 50 gram bullets at the rate of 30 bullets per minute at a speed of 400m/s. What force is required to keep the gun in position? 1 point

Mark only one oval.

- 10N  
 5N  
 15N  
 30N

5. 4) In an explosion, a body breaks up into two pieces of unequal masses. In this,

Mark only one oval.

- Both parts will have numerically equal momentum  
 Lighter part will have more momentum  
 Heavier part will have more momentum  
 Both parts will have equal kinetic energy

6. 5) The depth at which the value of acceleration due to gravity becomes 1/4 times value at the surface is (R=radius of earth) 1 point

Mark only one oval.

- R/4  
 R/16  
 3R/4  
 4R/3

7. 6) Moment of inertia of a body does not depend upon its 1 point

*Mark only one oval.*

- Mass
- Distribution of mass
- Angular velocity
- Axis of rotation

8. 7) Time period of a simple pendulum is doubled, when 1 point

*Mark only one oval.*

- Its length is doubled
- mass of the bob is doubled
- Length is made four times
- Amplitude is halved

9. 8) When a body is immersed in a liquid, its apparent weight 1 point

*Mark only one oval.*

- Increases
- Decreases
- is equal to weight
- is zero

10. 9) Two small steel balls have radii in the ratio 1:3. If both of them falls in the same viscous medium, their terminal velocities will be in the ratio 1 point

*Mark only one oval.*

- 1:3
- 3:1
- 9:1
- 1:9

11. 10) The material which practically does not show elastic after effect is 1 point

*Mark only one oval.*

- quartz
- Copper
- Rubber
- Steel

12. 11) The temperature on Celsius scale is 25°C. What is the corresponding temperature on the Fahrenheit scale? 1 point

*Mark only one oval.*

- 40°F
- 77°F
- 50°F
- 45°F

13. 12) Two solid spheres of the same material have the same radius but one is hollow while the other is solid. Both spheres are heated to same temperature. then 1 point

Mark only one oval.

- The solid sphere expands more
- The hollow sphere expands more
- Expansion is same for both
- Nothing can be said about their relative expansion of their masses are not given

14. 13) The amount of heat required to convert 5gm of ice at  $0^{\circ}\text{C}$  to steam at  $100^{\circ}\text{C}$  is 1 point

Mark only one oval.

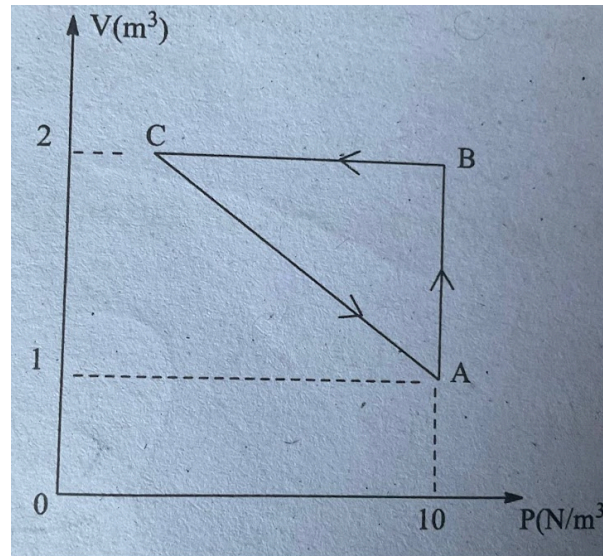
- 3600 cal
- 3100 cal
- 3200 cal
- 4200 cal

15. 14) The relation between the gas pressure  $P$  and average kinetic energy per unit volume  $E$  is 1 point

Mark only one oval.

- $P = E/3$
- $P = E$
- $P = 3E/2$
- $P = 2E/3$

16. 15) An ideal gas is taken through the cycle  $A \rightarrow B \rightarrow C \rightarrow A$ , as shown in figure. If the net heat supplied to the gas in the cycle is 5J. The work done by the gas in the process  $C \rightarrow A$  is 1 point



Mark only one oval.

- 5J
- 10J
- 15J
- 20J

17. 16) If the temperature difference on the two sides of a wall increases from  $100^{\circ}\text{C}$  to  $200^{\circ}\text{C}$ , its thermal conductivity

1 point

Mark only one oval.

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

18. 17) Quality of a musical note depends on

1 point

Mark only one oval.

- Harmonics present
- Amplitude of sound
- Fundamental frequency
- Speed of sound in medium

19. 18) A pipe open at both ends has an effective length of  $0.5\text{m}$ . The frequency of the note one octave above its fundamental frequency is (Velocity of sound in air =  $340\text{m/s}$ )

1 point

Mark only one oval.

- 680 Hz
- 340 Hz
- 170 Hz
- 1020 Hz

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

1 point

Mark only one oval.

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

21. 20) A concave mirror of focal length ( $f$ ) in air ( $\mu=1$ ) is immersed in water ( $\mu=4/3$ ). The focal length of mirror in water will be

1 point

Mark only one oval.

- $4f/3$
- $3f/4$
- $f$
- $\infty$

22. 21) Monochromatic light is refracted from air into the glass of refractive index  $\mu$ . The ratio of the wavelength of incident and refracted waves is

1 point

Mark only one oval.

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

23. 22) If angle of prism is  $60^\circ$  and angle of minimum deviation is  $40^\circ$ , the angle of refractive will be 1 point

Mark only one oval.

- $30^\circ$   
  $60^\circ$   
  $100^\circ$   
  $120^\circ$

24. 23) A convex glass lens is dipped in a liquid whose refractive index is equal to the refractive index of the lens. Then its focal length will 1 point

Mark only one oval.

- Become Zero  
 Become infinite  
 Reduce  
 increase

25. 24) The critical angle of light in a certain substance is  $45^\circ$ . What is the polarizing angle is 1 point

Mark only one oval.

- $54.7^\circ$   
  $30^\circ$   
  $60^\circ$   
  $45^\circ$

26. 25) A single slit of width  $0.2\text{mm}$  is illuminated with light of wavelength  $500\text{nm}$ . The observing screen is placed  $80\text{cm}$  from the slit. The width of the central bright fringe will be 1 point

Mark only one oval.

- $1\text{mm}$   
  $2\text{mm}$   
  $4\text{mm}$   
  $5\text{mm}$

27. 26) The electric field due to a positive charge at a distance of  $2\text{m}$  is  $4\text{N/C}$ . The magnitude of field at a distance of  $4\text{m}$  will be 1 point

Mark only one oval.

- $1\text{N/C}$   
  $4\text{N/C}$   
  $16\text{N/C}$   
  $2\text{N/C}$

28. 27) The net charge on a capacitor is 1 point

Mark only one oval.

- $2q$   
  $q/2$   
 Zero  
 Infinity

29. 28) The energy required to charge a parallel plate condenser of plate separation  $d$  and plate area of cross section  $A$  such that the uniform electric field between the plates is  $E$ , is 1 point

Mark only one oval.

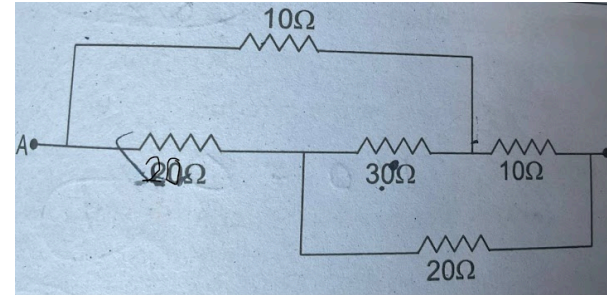
- $1/2 \epsilon_0 E^2 Ad$
- $1/2 \epsilon_0 E^2 / Ad$
- $\epsilon_0 E^2 / Ad$
- $\epsilon_0 E^2 Ad$

30. 29) Two copper wires, one of length  $1\text{m}$  and the other of length  $9\text{m}$  have the same resistance. The diameters are in the ratio 1 point

Mark only one oval.

- 3:1
- 1:3
- 9:1
- 1:9

31. 30) The equivalent resistance of the circuit between A and B as shown in figure is 1 point



Mark only one oval.

- 30Ω
- 20Ω
- 13Ω
- 8Ω

32. 31) The rate of increase of thermo emf with temperature at the neutral temperature of a thermo couple 1 point

Mark only one oval.

- is Zero
- is positive
- depends upon the choice of the two materials of the thermocouple
- is negative

33. 32)The resistance of an ideal voltmeter is 1 point

Mark only one oval.

- Zero
- Very low
- Very high
- Infinite

34. 33)Magnetic field inside the solenoid is 1 point

Mark only one oval.

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

35. 34)Force of attraction or repulsion between two current wires separated by a distance  $r$  is proportional to 1 point

Mark only one oval.

- $r$
- $r^2$
- $1/r$
- $1/r^2$

36. 35)The value of the magnetizing field when magnetic flux density equals zero is called 1 point

Mark only one oval.

- Retentivity
- Curie's temperature
- Coercivity
- Magnetic susceptibility

37. 36)Lenz's law is consequence of the law of conservation of 1 point

Mark only one oval.

- Charge
- Momentum
- Mass
- Energy

38. 37)The peak value of alternating current is  $5\sqrt{2}$  A. The mean square value of current will be 1 point

Mark only one oval.

- 5A
- 2.5A
- $5\sqrt{2}$  A
- 10A

39. 38)An N-type semiconductor is

1 point

*Mark only one oval.*

- Positively charged
- Negatively charged
- Neutral
- May be positively or negatively charged depending on the amount of impurity

40. 39)In a PN Junction, the diffusion current is greater than the drift current in magnitude if the junction is

1 point

*Mark only one oval.*

- Forward biased
- Reverse biased
- Unibiased
- None

41. 40)Zener break down in a semiconductor diode occurs when

1 point

*Mark only one oval.*

- Forward current exceeds certain value
- Reverse current exceeds certain value
- Forward bias exceeds certain value
- Potential barrier is reduced to Zero

42. 41)What is the value of  $A \cdot \bar{A}$  in Boolean algebra

1 point

*Mark only one oval.*

- 0
- 1
- A
- $\bar{A}$

43. 42)The quark combination of uud gives

1 point

*Mark only one oval.*

- Proton
- neutron
- electron
- neutrino

44. 43)Graviton's are those particles that carry the .... force

1 point

*Mark only one oval.*

- Gravitational
- Electromagnetic
- Photoelectric
- Electro static

45. 44) From where quake waves are generated?

1 point

Mark only one oval.

- Focus
- Epicenter
- Solid inner core
- None of these

46. 45) The important conclusion given by Millikan's experiment about the charge is

1 point

Mark only one oval.

- Charge is never quantized
- Charge has no definite value
- Charge is quantized
- Charge on oil drop always increases

47. 46) The maximum kinetic energy of the photo electrons depends only on

1 point

Mark only one oval.

- frequency
- Pressure
- Potential
- Incident angle

48. 47) The potential difference applied to an X-ray tube is 5KV and the current through it is 3.2mA. Then the number of electrons striking the target per second is

1 point

Mark only one oval.

- $2 \times 10^{16}$
- $5 \times 10^{16}$
- $1 \times 10^{17}$
- $4 \times 10^{15}$

49. 48) The total energy of electron in the hydrogen atom in the ground state is -13.6eV. The K.E of the electron is

1 point

Mark only one oval.

- 13.6 e V
- Zero
- 6.8eV
- 13.6eV

50. 49) The wavelength of an electron of energy 10keV will be

1 point

Mark only one oval.

- 0.12Å
- 1.2Å
- 12Å
- 120Å

51. 50) Two Nuclei have mass numbers 1 and 27. The ratio of their nuclear radii is 1 point

Mark only one oval.

- 1:1
- 1:3
- 1:2
- 1:27

### CHEMISTRY

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  $\text{CO}$ ? 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)  $\text{C}_6\text{H}_5\text{N}_2\text{Cl} + \text{CuCl}$  gives.. 1 point

Mark only one oval.

- $\text{C}_6\text{H}_6$
- $\text{C}_6\text{H}_5\text{NH}_2$
- $\text{C}_6\text{H}_5\text{Cl}$
- $\text{C}_6\text{H}_5\text{-C}_6\text{H}_5$

57. 56)Chloretone 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  $170\text{ }^\circ C$  forms.. 1 point

Mark only one oval.

- Ethene  
 Carboanion  
 Carbene  
 Hydrogen ethyl sulphate

59. 58)Which of the following is amorphous form of carbon? 1 point

Mark only one oval.

- Diamond  
 Graphite  
 Fullerece  
 Anthracite

60. 59)Which of the following compound does not show lassaigne's rest for nitrogen? 1 point

Mark only one oval.

- Urea  
 Hydrazine  
 Azobenzene  
 Phenylhydrazine

61. 60)IUPAC name of  $CH_3COCH_2CH_2CH_3$  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

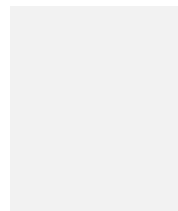
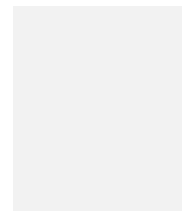
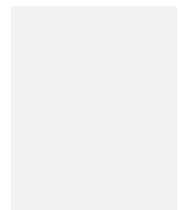
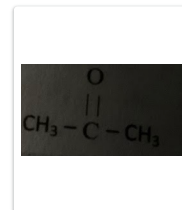
Mark only one oval.

- Only ethanol
- Ethanal
- Methanal
- Ethenedial

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

1 point

Mark only one oval.


 C<sub>6</sub>H<sub>5</sub>  
CHO

 CH<sub>3</sub>  
CHO

 CH<sub>3</sub>CH  
2CHO

 Option 4

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

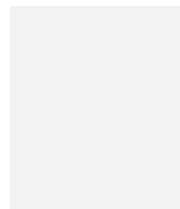
70. 69) Heterolytic fission gives.. 1 point

Mark only one oval.

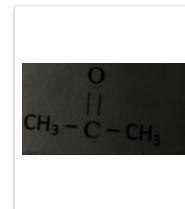
- Carbocation
- Ions
- Free radicals
- Carbocation and carbanion

71. 70) Which of the following reacts with Benedict's reagent? 1 point

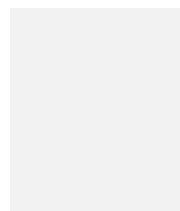
Mark only one oval.



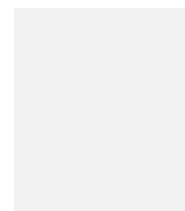
- CH<sub>2</sub>CHO



- Option 2



- C<sub>6</sub>H<sub>5</sub>CHO



- R-COOH

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  $\text{NH}_4\text{Cl}$  and 0.2 moles of  $\text{NH}_4\text{OH}$  per litre(Given  $\text{p}K_b=5$ ).

1 point

*Mark only one oval.*

- 9
- 10
- 11
- 12

74. 73)In the reaction  $\text{CH}_3\text{COOH}+\text{NH}_3\rightleftharpoons\text{CH}_3\text{COO}^-+\text{NH}_4^+$ , which acts as Bronsted acid?

1 point

*Mark only one oval.*

- $\text{CH}_3\text{COO}^-$
- $\text{CH}_3\text{COO}^-$  AND  $\text{NH}_4^+$
- $\text{CH}_3\text{COOH}$  AND  $\text{NH}_4^+$
- $\text{NH}_4^+$  AND  $\text{CH}_3\text{COOH}$

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

1 point

*Mark only one oval.*

- $\text{Mg}^{++}$
- $\text{O}^-$
- $\text{F}^-$
- $\text{Na}^+$

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 hasB is4.If molecular weight of A isM,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)  $\text{SO}_2 + \frac{1}{2} \text{O}_2 \rightleftharpoons \text{SO}_3 + \text{heat}$   
All of the following favors formation of  $\text{SO}_2$  except. 1 point

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  $\text{C} + \text{O}_2 \rightarrow \text{CO}_2; \Delta H = -a$   
and  $2\text{CO} + \text{O}_2 \rightarrow 2\text{CO}_2; \Delta H = -b$   
Find the heat of formation of 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 the 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)Galvaniozation is process is coating zinc over iron during this process, Zn acts as:

1 point

Mark only one oval.

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

97. 96)Which of the following produces CL2 at room temperature?

1 point

Mark only one oval.

- HCl+KMnO4
- NaCl+MnO2
- HBr+KCl
- Cl2+NaOH

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

1 point

Mark only one oval.

- 1S2 2S2 2P6
- 1S2 2S2 2P5
- 1S2 2S2 2P6 3S1
- 1S2 2S2 2P3

99. 98)Halogen with highest electron affinity is:

1 point

Mark only one oval.

- Cl2
- Br2
- I2
- F2

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)The difference of RNA and DNA is of

1 point

*Mark only one oval.*

- Base only
- Sugar and base
- Phosphate and base
- Sugar and phosphate

103. 102)What is the smallest living cell?

1 point

*Mark only one oval.*

- Sperm cell
- Ova
- Bacteria
- Mycoplasma

104. 103)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

105. 104)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

106. 105)Small cell has

1 point

*Mark only one oval.*

- Higher surface volume
- Small surface volume
- Both
- None

107. 106)Which scientist modify cell theory?

1 point

*Mark only one oval.*

- Rudolf Virchow
- Schledein
- Robert hooke
- Aristotle

108. 107) Which of the following is respiration in eukaryotic cell? 1 point

*Mark only one oval.*

- Mitochondria  
 Mesosome  
 Both  
 None

109. 108) Which of the following is absent in prokaryotic cell? 1 point

*Mark only one oval.*

- Nuclear membrane  
 Nucleoplasm  
 Nucleolous  
 All

110. 109) Largest cell in plant? 1 point

*Mark only one oval.*

- Xylem  
 Sclerenchyma  
 Nerve cell  
 Ostrich egg

111. 110) Smallest cell without cell wall? 1 point

*Mark only one oval.*

- Mycoplasma  
 Bacteria  
 Ostrich egg  
 Sperm cell

112. 111) Which of the following includes prokaryotic cell? 1 point

*Mark only one oval.*

- Animals  
 BGA  
 Archeobacteria  
 Both b and c

113. 112) The genetic code is described as: 1 point

*Mark only one oval.*

- Ambiguous  
 Non-degenerate  
 Universal  
 Non-overlapping and universal

114. 113)A mutation that involves the reversal of a DNA segment is called: 1 point

*Mark only one oval.*

- Deletion
- Duplication
- Inversion
- Translocation

115. 114)A female who carries one recessive X- linked allele but does not express the trait is called a: 1 point

*Mark only one oval.*

- Homozygous dominant
- Homozygous recessive
- Carrier
- Affected individual

116. 115)Which is connected with multiple phenotypes? 1 point

*Mark only one oval.*

- Epistasis
- Pleiotropy
- Polygenic inheritance
- Mutations

117. 116)During zygotene,homologous chromosomes pair up to form: 1 point

*Mark only one oval.*

- Bivalents
- Chromatids
- Centrioles
- Spindles

118. 117)Which of the following correctly represents the sequence of ecological hierarchy from lowest to highest? 1 point

*Mark only one oval.*

- Organism–population–Ecosystem–Community–Biosphere
- Organism–Community–Population–Biosphere–Ecosystem
- Organism–population–community–Ecosystem–Biosphere
- Biosphere–Population–Community–Ecosystem–Biosphere

119. 118)Which of the following climatic factors plays a key role in determining the geographical distribution of biomes? 1 point

*Mark only one oval.*

- Soil type
- Temperature and rainfall
- Wind and altitude
- Light and humidity

120. 119)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

121. 120)The conversion of ammonia(NH<sub>3</sub>) into nitrites(NO<sub>2</sub>-) and then into nitrates(NO<sub>3</sub>-) is called: 1 point

*Mark only one oval.*

- Denitrification
- Nitrogen fixation
- Nitrification
- Assimilation

122. 121)Minamata disease is caused by: 1 point

*Mark only one oval.*

- Lead pollution
- Arsenic poisoning
- Cadmium exposure
- Mercury contamination

123. 122)Edibal part of litchi develops from 1 point

*Mark only one oval.*

- Funicle
- Integument
- Nucellus
- Synergids

124. 123)Filliform apparatus is the characteristics of 1 point

*Mark only one oval.*

- Antipodal cell
- Egg cell
- Chalaza
- Synergids

125. 124)Which of the following is a limitation of using biocontrol agents? 1 point

*Mark only one oval.*

- Harmful to enviroment
- Slower action compared to chemicals
- Persistent toxic residues
- Broad-spectrum control

126. 125)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

127. 126)If a ring of bark is removed from a tree(girdling),What is likely to happen first? 1 point

*Mark only one oval.*

- Accumulation of sugars above the ring
- Immediate wilting of leaves
- Death of xylem cells
- Increased transpiration

128. 127)How many NADH molecules are produced per pyruvate during oxidation decarboxylation? 1 point

*Mark only one oval.*

- 0
- 1
- 2
- 3

129. 128)Which physical change occurs during imbibition? 1 point

*Mark only one oval.*

- Water potential of imbibant increases
- Volume of imbibant increases
- Solute concentration increases
- Water evaporates

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

*Mark only one oval.*

- Flax
- Cotton
- Hemp
- Ramie

131. 130)Sclerenhyma cells differ from collenchyma in that they: 1 point

*Mark only one oval.*

- Have unevenly thickened walls
- are dead at maturity
- Are located mainly in leaf midribs
- Help in photosynthesis

132. 131) Phelloderm is formed on which side of the cork cambium?

1 point

*Mark only one oval.*

- Middle
- Outside
- Inside
- Alongside

133. 132)The genome of reoviruses is composed of:

1 point

*Mark only one oval.*

- Double-stranded RNA
- Single-stranded RNA
- Double-stranded DNA
- Single-stranded DNA

134. 133)Which bacterial group lacks a peptidoglycan cell wall?

1 point

*Mark only one oval.*

- Gram-positive bacteria
- Cyanobacterial
- Proteobacteria
- Mycoplasma

135. 134)Which of the following types of lichens is characterized by a shrub-like appearance? 1 point

*Mark only one oval.*

- Foliose
- Crustose
- Fruticose
- Squamulose

136. 135)The presence of flagella only in reproductive cells is characteristic of which algal group? 1 point

*Mark only one oval.*

- Rhodophyta
- Chlorophyta
- Bacillariophyta
- Phaeophyta

137. 136)The gymnosperm seed contains how many cotyledons? 1 point

*Mark only one oval.*

- one
- Two
- Varies depending on species
- None

138. 137)Which term describes flowers with bilateral symmetry?

1 point

*Mark only one oval.*

- Actinomorphic
- Zygomorphic
- Asymmetric
- Regular

139. 138)The two lateral petals of papilionaceae flowers are called:

1 point

*Mark only one oval.*

- Wings or algae
- Standard
- keel
- Septals

140. 139)Which of the following is NOT a criterion used by Whittaker to classify organisms into five kingdoms?

1 point

*Mark only one oval.*

- Cell structure
- Mode of nutrition
- Reproductive methods
- Habitat

141. 140)"Micrographia" is written by

1 point

*Mark only one oval.*

- Robert Hooke
- Robert brown
- Leewenhoek
- Swanson

**ZOOLOGY**

142. 141)Which hormone possesses anti-insulin effect?

1 point

*Mark only one oval.*

- Cortisole
- Calcitonin
- Oxytocin
- Aldosterone

143. 142)One function of parasympathetic nervous system is

1 point

*Mark only one oval.*

- Contraction of hair muscles
- Stimulation of sweat gland
- Acceleration of heart beat
- Contraction of pupil

144. 143) Which of the following cannot be detected in a developing fetus by amniocentesis

*Mark only one oval.*

- Jaundice
- Klinefelter's syndrome
- Down's syndrome
- Sex of fetus

145. 144) Nicotine acts as stimulant, because it mimics the effect of

*Mark only one oval.*

- Testosterone
- Dopamine
- Thyroxine
- Acetylcholine

146. 145) In which blood corpuscles, the HIV undergoes replication and produces progeny viruses?

*Mark only one oval.*

- Basophils
- Eosinophils
- TH cells
- B-Lymphocytes

147. 146) Components of blood responsible for producing antibodies:

*Mark only one oval.*

- Thrombocytes
- Monocytes
- Erythrocyte
- Lymphocytes

148. 147) A fall in glomerular filtration rate (GFR) activates

*Mark only one oval.*

- Juxtaglomerular cells to release renin
- Adrenal Cortex to release aldosterone
- Adrenal medulla to release adrenalin
- Posterior pituitary to release vasopressin

149. 148) Sternum is connected to ribs by

*Mark only one oval.*

- Bony matter
- White fibrous cartilage
- Hyaline cartilage
- Areolar tissue

150. 149)Characteristic of simple epithelium is that they 1 point

*Mark only one oval.*

- Are arranged indiscriminately
- Make definite layer
- Continue to divide and help in organ function
- None of the above

151. 150)Photoreceptors of earthworm occur on 1 point

*Mark only one oval.*

- Clitellum
- Many eyes
- Dorsal surface
- Lateral sides

152. 151)Formation of canal system in sponges is due to 1 point

*Mark only one oval.*

- Pinacocytes
- Gastro-vascular system
- Reproduction
- Porous wall

153. 152)The flight muscle of birds are attached to 1 point

*Mark only one oval.*

- Clavicle
- Keel of sternum
- Scapula
- Coracoid

154. 153)Gorilla, Chimpanzee, monkey and human belong to same 1 point

*Mark only one oval.*

- Species
- Genus
- Family
- Order

155. 154)One of the special character of coelenterata only is the occurence of 1 point

*Mark only one oval.*

- Polymorphism
- Flame cells
- Hermaphroditism
- Nematocysts

156. 155)Ureter acts as urinogenital duct in

1 point

*Mark only one oval.*

- Human male
- Human female
- Both male and female frog
- Male frog

157. 156)In malarial infection, lysolecithin that destroys the RBCs are secreted by

1 point

*Mark only one oval.*

- Spleen
- Liver
- WBCs
- Plasmodium

158. 157)The stage of plasmodium that contains rhoteries is

1 point

*Mark only one oval.*

- Ookinete
- Signet Ring stage
- Merozoites
- Sporozoites

159. 158)A process that help Arthropoda to grow is

1 point

*Mark only one oval.*

- Morphogenesis
- Lyses
- Homeostasis
- Ecdysis

160. 159)The blood group in man discovered by?

1 point

*Mark only one oval.*

- Mendel
- Francis Melton
- S.Milton
- Landsteiner

161. 160)The arterial systole normally precedes the ventricular systole because the impulse takes time to pass from

1 point

*Mark only one oval.*

- SA node to AV node
- AV node to AV bundle
- AV node to SA node
- AV bundle to purkinje fibre

162. 161)The amount of air that remains in the lungs after the most powerful expiration is termed: 1 point

*Mark only one oval.*

- Vital capacity
- Reserve air
- Tidal air
- Residual air

163. 162)Rate of respiration is slowest at 1 point

*Mark only one oval.*

- Sleeping
- Playing tennis
- Running
- Eating food

164. 163)An invertebrate group in which larva is Bilaterally symmetrical and adults are asymmetrical is 1 point

*Mark only one oval.*

- Echinodermata
- Sponges
- Gastropoda
- Arthropoda

165. 164)Recapitulation theory was proposed by 1 point

*Mark only one oval.*

- Weismann
- Haeckel
- Cuvie
- Wallace

166. 165)Proper burial of dead bodies, for the first time, started in which prehistoric man's period? 1 point

*Mark only one oval.*

- Java man
- Peking man
- Neanderthal man
- Cro-magnon man

167. 166)In which of the following Epoch Horse was originated? 1 point

*Mark only one oval.*

- Palaeocene
- Eocene
- Oligocene
- Miocene

168. 167)Synthesis of amino acids to prove that amino acids were formed in primitive ocean was experimentally proved by 1 point

*Mark only one oval.*

- Oparin  
 Haldane  
 Sidney fox  
 Stanley Miller

169. 168)Mammalian bones differ from cartilage due to the presence of 1 point

*Mark only one oval.*

- Collagen  
 Blood vessels  
 Lymph vessels  
 Haversian canal

170. 169)Vagina,Oesophagus and urethra contain which type of tissue? 1 point

*Mark only one oval.*

- stratified squamous epithelium tissue  
 Ciliated epithelium  
 Columnar epithelium  
 Simple squamous epithelium

171. 170)The tissue which form the basic structure of lymphoid organs,liver,etc. is 1 point

*Mark only one oval.*

- Elastic tissue  
 Areolar tissue  
 Lymphoid tissue  
 Reticular tissue

172. 171)The animals having long and hooked claws adapted for which adaptation? 1 point

*Mark only one oval.*

- Volant  
 Arboreal  
 Swimming  
 Cave

173. 172)Protein which is both structural are enzymatic is 1 point

*Mark only one oval.*

- Troponin  
 Myosin  
 Trypsin  
 Actin

174. 173) Strongest memory for the brain is: 1 point

*Mark only one oval.*

- Smell
- Taste
- Pain and vision
- Touch

175. 174) Which part of brain controls emotions like love, anger, fear and pleasure? 1 point

*Mark only one oval.*

- Medulla oblongata
- Hypothalamus
- cerebrum
- Limbic system

176. 175) The centrum of 2nd to 7th vertebrae of frog is 1 point

*Mark only one oval.*

- Anteriorly concave, posteriorly convex
- Anteriorly concave, posteriorly concave
- Anteriorly convex, posteriorly concave
- Anteriorly convex, posteriorly convex

177. 176) Which of the following is correctly matched? 1 point

*Mark only one oval.*

- Amphetamine: Stimulant
- Heroin: psychotropic
- LSD: Narcotic
- Benzodiazepines: Pain killer

178. 177) A woman shows bilaterally blocked fallopian tubes. Which procedure would you further suggest for her? 1 point

*Mark only one oval.*

- Amniocentesis
- ELISA
- antiviral treatment
- IVF

179. 178) Why is a frog's mouth difficult to open? 1 point

*Mark only one oval.*

- Absence of teeth
- Due to presence of prelingual elevation on lower jaw and fossae on upper jaw
- Upper maxillary teeth
- Presence of fossa on lower jaw

180. 179)Transport protein is:

1 point

*Mark only one oval.*

- Albumin
- Myosin
- Actin
- Ricin

181. 180)Vital capacity is

1 point

*Mark only one oval.*

- 4000-4800 mL
- 1000mL
- 5800-6000mL
- 2000-2500mL

**MATT**

182. 181)In how many ways "RISHAV" can be arranged so that the volumes are the two ends? 1 point

*Mark only one oval.*

- 24
- 48
- 72
- 96

183. 182)A farmer built a fence in an equilateral triangular land.He used 25 poles on each side of the that field. Find the total number of poles he used? 1 point

*Mark only one oval.*

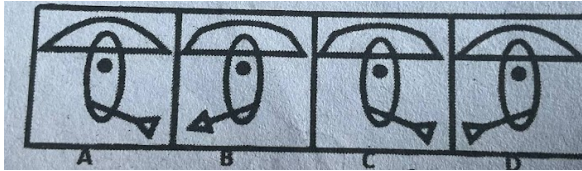
- 75
- 96
- 72
- 100

184. 183) Arrange the following words as per order in the dictionary. 1 point  
1.necrology 2.necromancy 3.necropolis 4.necrophilia*Mark only one oval.*

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

185. 184)Which one is odd one?

1 f



Mark only one oval.

- A
- B
- C
- D

186. 185)How many 9's are followed and preceded by those numbers which are divided by 2?

1 point

89653596834965269737294413794137294173498453976614319574  
2968532957489451

Mark only one oval.

- 4
- 6
- 8
- 10

187. 186)The average of 100 observations was calculated as 35. It was found later that one of the observations was misread as 83 instead of 53. The correct average is:

1 point

Mark only one oval.

- 35.3
- 34.7
- 35.7
- 34.3

188. 187)A man is twice as fast as a woman and a woman is twice as fast as a boy in doing a work. If all of them, a man, a woman and a boy can finish the work in 7 days, in how many days a boy will do it alone?

1 point

Mark only one oval.

- 49 days
- 7 days
- 6 days
- 42 days

189. 188)Find the wrong term in the series given below.  
5,25,65,125,206,305

1 point

Mark only one oval.

- 125
- 65
- 206
- 305

190. 189) AaBabABCabc.....,74th letter=?

1 point

Mark only one oval.

- A
- a
- b
- B

191. 190) Complete the given matrix:

1 p

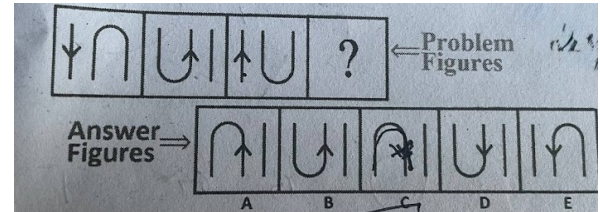
5	3	28
9	2	83
6	8	?

Mark only one oval.

- 40
- 44
- 52
- 56

192. 191) First figure:second::third:? :

1 p



Mark only one oval.

- A
- B
- C
- D

193. 192) 1000,11000,9900,10890,?

1 point

Mark only one oval.

- 11801
- 11780
- 9081
- 9801

194. 193)Statement: It is desirable to put the child in school at the age of 5 or so. 1 point

Assumptions:

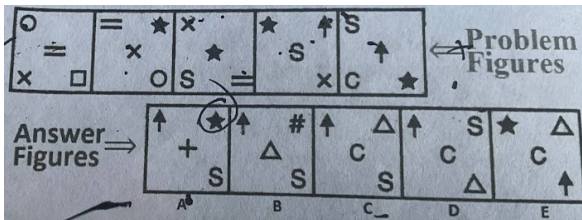
I →At that age the child reaches appropriate level of development and is ready to learn.

II →The schools do not admit children after six years of age.

Mark only one oval.

- only assumption I is implicit
- Only assumption II is implicit
- Neither I nor II is implicit
- Both I and II are implicit

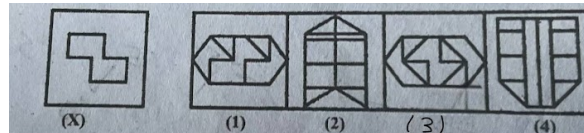
195. 194)Select a figure from amongst the Answer figures which will continue the same series as established by the five Problem Figures. 1 point



Mark only one oval.

- A
- B
- C
- D

196. 195)Find out the alternative figure which contains figure(X) as its part. 1 point



Mark only one oval.

- 1
- 2
- 3
- 4

197. 196)The first day of 2025 was 1 point

Mark only one oval.

- Monday
- Tuesday
- Wednesday
- Thursday

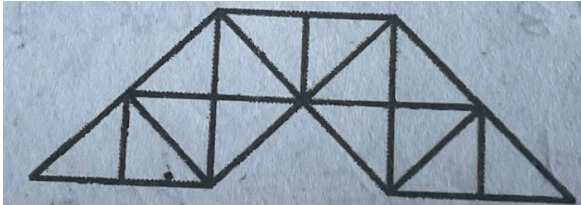
198. 197)In a school, the ratio of boys to girls is 4:3 and the ratio of girls to teachers is 8:1.The ratio of students to teachers is: 1 point

Mark only one oval.

- 56:3
- 55:1
- 49:3
- 56:1

199. 198) How many triangles in the figures below?

1 p

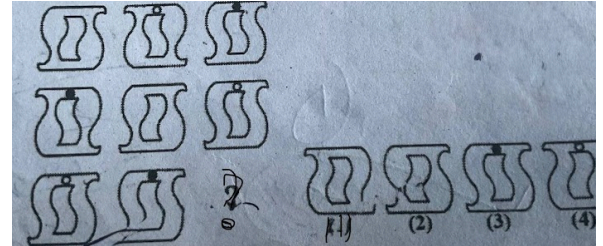


Mark only one oval.

- 28
- 29
- 32
- 31

200. 199) Select a suitable figure from the four alternatives that would complete the figures matrix.

1 p



Mark only one oval.

- 1
- 2
- 3
- 4

201. 200) A man can row 30km downstream and return in a total of 8 hours. If the speed of the boat in still water is four times the speed of the current, then the speed of the current is

1 point

Mark only one oval.

- 1 km/hour
- 2 km/hour
- 3 km/hour
- 4 km/hour

