

Time: 20 Minutes**OBJECTIVE****Code : 6487****Marks: 17**

Note: You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill that circle in front of that question number. Use marker or pen to fill the circles. Cutting or filling two or more circles will result in zero mark in that question.

- 1 - Gooch Crucible is made up of
(A) glass (B) porcelain (C) rubber (D) plastic
- 2 - The pH of 10^{-3} moles/dm³ of an aqueous solution of H₂SO₄ is
(A) 3.0 (B) 2.7 (C) 2.0 (D) 1.5
- 3 - Enzyme used for hydrolysis of sucrose is
(A) invertase (B) urease (C) lipase (D) zymase
- 4 - The partial pressure of Oxygen in lungs is
(A) 159 torr (B) 116 torr (C) 130 torr (D) 140 torr
- 5 - The voltage of Silver Oxide battery is about
(A) 1.5 V (B) 2 V (C) 2.5 V (D) 3 V
- 6 - The change in heat energy of chemical reaction at constant temperature and pressure is called
(A) enthalpy change (B) heat of sublimation (C) bond energy (D) internal energy change
- 7 - Allotropy is the property of
(A) compound (B) mixture (C) element (D) molecule
- 8 - Bond angle of NF₃ is
(A) 102° (B) 104° (C) 109.5° (D) 120°
- 9 - A solution of glucose is 10% w/v. The volume in which its 1g mole is dissolved will be
(A) 1 dm³ (B) 1.8 dm³ (C) 200 cm³ (D) 900 cm³
- 10 - Decolourizing agent used in crystallization is
(A) P₂O₅ (B) animal charcoal (C) KMnO₄ (D) CCl₄
- 11 - The number of isotopes of Nickel are
(A) 2 (B) 3 (C) 5 (D) 7
- 12 - Number of molecules in 1dm³ of water is close to
(A) $\frac{6.02}{22.4} \times 10^{23}$ (B) $\frac{12.04}{22.4} \times 10^{23}$ (C) $\frac{18}{22.4} \times 10^{23}$ (D) $55.5 \times 6.02 \times 10^{23}$
- 13 - Splitting of spectral lines when atoms are subjected to strong electric field is called
(A) Zeeman's effect (B) Stark effect (C) photoelectric effect (D) Compton effect
- 14 - Bond order of O₂ according to MOT is
(A) 1 (B) 2 (C) 3 (D) 4
- 15 - (n + l) value for 4p orbital is
(A) 4 (B) 5 (C) 6 (D) 7
- 16 - Which of following will have Hydrogen bonding in its molecules
(A) C₂H₅OH (B) CCl₄ (C) I₂ (D) NaCl
- 17 - The empirical formula of glucose C₆H₁₂O₆ is
(A) C₆H₁₂O₆ (B) CHO (C) CH₂O (D) CH₂O₂