

1. Functionality of phthalic acid is
(A) One (B) Two (C) Three (D) Four
2. Experimental technique used to evaluate Weight Average Molecular Weight
(A) Osmometry (B) Light scattering (C) Cryoscopy (D) Viscometry
3. Which of the following is a chain growth polymer
(A) Nylon 6 (B) Glyptal (C) Polypropylene (D) Dacron
4. Which of the following compound is used in Zeigler Natta Catalyst
(A) $ZnCl_2$ (B) $TiCl_3$ (C) $CaCl_2$ (D) NH_4Cl_4
5. Pharmaceutical closures are made by
(A) HYPALON (B) EPDM (C) HALO BUTYL (D) NEOPRENE
6. Which process is used to manufacture Garden hose
(A) Blow moulding (B) Pultrusion (C) Injection moulding (D) Extrusion
7. $\Delta G_m \sim \Delta H_m > 0$ is true for ?
(A) Miscible blend (B) Immiscible blend (C) Polymer alloy (D) both A and B
8. The minimum number of ions in the unit cell of an ionic crystal with FCC space lattice is
(A) 16 (B) 12 (C) 8 (D) 4
9. Which of the following is not mentioned in Hume-Rothery's rule
(A) Chemical affinity factor (B) Relative valency factor (C) Solvent factor
(D) Lattice type factor
10. Nanotechnology is the science and technology of precise manipulation of the structure of matter at the
(A) Microscale (B) Macroscale (C) Subscale (D) Nanoscale
11. What is collagen?
(A) Fat (B) Protein (C) Carbohydrate (D) None of the above
12. The S I unit of power is
(A) Henry (B) Coulomb (C) Watt (D) Watt-hour