

Time: 20 Minutes

OBJECTIVE **Code: 8472****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. Attempt as many questions as given in objective type question paper and leave others blank.

1. Electric flux through a closed surface depends upon
(A) charge (B) medium (C) geometry (D) charge and medium
2. Coulomb per volt is called
(A) farad (B) ampere (C) joule (D) henry
3. The substance having negative temperature co-efficient of resistance
(A) silver (B) gold (C) carbon (D) tungsten
4. One Tesla is equal to
(A) $1 \text{ N}^{-1} \text{ Am}$ (B) 1 NAm (C) $1 \text{ NA}^{-1} \text{ m}^2$ (D) $1 \text{ NA}^{-1} \text{ m}^{-1}$
5. Magnetic flux density at a point due to current carrying coil is determined by
(A) Ampere's law (B) Gauss's law (C) Faraday's law (D) Lenz's law
6. Mutual induction has a practical role in the performance of the
(A) radio choke (B) transformer (C) A.C generator (D) D.C generator
7. The self-induced emf is sometimes called _____ emf.
(A) motional (B) constant (C) back (D) variable
8. Power dissipated in a pure inductor is
(A) large (B) small (C) infinite (D) zero
9. At resonance frequency the impedance of RLC parallel circuit is
(A) zero (B) infinite (C) minimum (D) maximum
10. Above the curie temperature iron is
(A) paramagnetic (B) diamagnetic (C) ferromagnetic (D) remain same
11. A P-n junction cannot be used as
(A) amplifier (B) rectifier (C) detector (D) LED
12. The width of central region of a transistor is
(A) 10^{-4} m (B) 10^{-6} m (C) 10^{-3} m (D) 10^{-9} m
13. When platinum wire is heated it becomes orange at
(A) 500°C (B) 900°C (C) 1100°C (D) 1300°C
14. The value of plank's constant h is
(A) $6.63 \times 10^{-34} \text{ JS}$ (B) $6.63 \times 10^{-34} \text{ JS}^{-1}$ (C) $6.63 \times 10^{-34} \text{ JS}^2$ (D) $6.63 \times 10^{-34} \text{ JS}^{-2}$
15. Helium – Neon Laser discharge tube Contain Neon
(A) 85% (B) 80% (C) 30% (D) 15%
16. A pair of quark and antiquark makes a
(A) meson (B) hadron (C) lepton (D) baryon
17. A device that shows the visible path of ionizing particle is called
(A) G.M. counter (B) solid detector (C) scalar (D) Wilson Cloud Chamber