

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. To construct a step down transformer _____.
(A) $N_S > N_P$ (B) $N_S = N_P$ (C) $N_S < N_P$ (D) $N_S = 10 N_P$
2. The inputs of NAND gate are '1' and '0'. Its output will be _____.
(A) 0 (B) 2 (C) 0.5 (D) 1
3. SI unit of current amplification factor ' β ' is _____.
(A) ampere (B) AS^{-1} (C) no unit (D) CS^{-1}
4. Lyman series lies in the _____.
(A) ultraviolet region (B) visible region (C) infrared region (D) far-infrared region
5. Practical application of electrostatic force is in _____.
(A) laser (B) x-ray production (C) inkjet printer (D) A.C generator
6. Which of the following has the greatest frequency?
(A) radio wave (B) gamma-ray (C) x-ray (D) red light
7. Two down and one up quark make _____.
(A) neutron (B) photon (C) positron (D) proton
8. The unit of magnetic flux density is _____.
(A) $Wb\ m^{-2}$ (B) $Nm^{-1}A^{-1}$ (C) tesla (D) all of these
9. Magnitude of drift velocity is of the order of _____.
(A) $10^{-6}mS^{-1}$ (B) 10^6mS^{-1} (C) 10^3mS^{-1} (D) $10^{-3}mS^{-1}$
10. The half life of radon gas is _____.
(A) 4.5×10^9 years (B) 30.1 years (C) 3.8 days (D) 23.5 minutes
11. The device which allows only the continuous flow of A.C through it is _____.
(A) capacitor (B) inductor (C) thermistor (D) all of these
12. A cell is used in _____.
(A) ohmmeter (B) ammeter (C) galvanometer (D) voltmeter
13. A charge of four coulombs is in the electric field intensity of $4\ N/C$. The force on the charge is _____.
(A) 8 N (B) 16 N (C) 1 N (D) zero
14. Which one is low energy photon?
(A) x-ray (B) infrared light (C) ultraviolet light (D) visible light
15. The peak value of A.C source is 20 A, then its rms value will be _____.
(A) 10 A (B) 14.1 A (C) 20 A (D) 28.2 A
16. If a body regains completely its altered shape and size, it is said to be _____.
(A) plastic (B) brittle (C) elastic (D) all of these
17. The magnetic field of solenoid is quite similar to that of _____.
(A) straight conductor (B) single wire loop (C) a bar magnet (D) all of these