OBJECTIVE

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.

QUESTION NO. 1

1. When dielectric material is placed in an electric field it
(A) conducts   (B) exhibit electric charge   (C) undergoes electrolysis   (D) becomes polarized

2. The charging time of capacitor depends upon
(A) R/C   (B) C/R   (C) R × C   (D) $\sqrt{RC}$

3. Equivalent resistance when two resistances are connected in parallel is given by
(A) $\dfrac{R_1 - R_2}{R_1 R_2}$ (B) $R_1 - R_2$ (C) $\dfrac{R_1 R_2}{R_1 + R_2}$ (D) $\dfrac{R_1 R_2}{R_1 - R_2}$

4. When Ohm meter measures infinite resistance , its pointer lies at
(A) Centre of scale   (B) Left end of scale   (C) Right end of scale   (D) Out of scale

5. A proper combination of a galvanometer and a series resistance acts as
(A) Ohm meter   (B) Volt meter   (C) Ammeter   (D) Potentiometer

6. A transformer
(A) transformers power   (B) generates emf   (C) transforms voltage   (D) transforms energy

7. When a motor is just started , the back emf is
(A) maximum   (B) minimum   (C) infinity   (D) Almost zero

8. In D.C circuits , current and voltage are controlled by
(A) capacitor   (B) inductor   (C) Resistor   (D) gate

9. The reactance x_c of capacitor is given by
(A) $x_c = 2 \pi fc$ (B) $x_c = \pi fc$ (C) $x_c = \dfrac{1}{2 \pi fc}$ (D) $x_c = \dfrac{1}{2 \pi f}$

10. Semiconductor resistivity ranges .... $(\Omega \, m)^{-1}$
(A) 10^{-6} to 10^{-4} (B) 10^{6} to 10^{4} (C) 10^{-6} to 10^{-5} (D) 10^{-8} to 10^{-10}

11. The mathematical symbol for NOR operation is
(A) $x = A.B$ (B) $x = \overline{A.B}$ (C) $x = A+B$ (D) $x = \overline{A+B}$

12. Emitter current IE in transistor is given by
(A) IE = IC/IB   (B) IE = IB/IC   (C) IE = IB + IC   (D) IE = IC – IB

13. The condition $hf > 2 \, moc^2$ refers to
(A) Compton effect   (B) pair production   (C) Photoelectric effect   (D) Annihilation of matter

14. Momentum of photon is
(A) h/c   (B) c/h   (C) hf/c   (D) λ/h

15. An atom can reside in excited state for
(A) 10^{-8} Sec   (B) one second   (C) 10^{-3} Sec   (D) 10^{-10} Sec

16. The SI unit of radiation dose is
(A) Roentgen   (B) Curie   (C) Grey   (D) Rem

17. The particles equal in mass or greater than protons are called
(A) leptons   (B) baryons   (C) mesons   (D) muons

SECTION-I

QUESTION NO. 2   **Write short answers any Eight (8) questions of the following**   **16**
(1) Give statement of Gauss's law. Write down it's mathematical form
(2) How can you identify that which plate of a capacitor is positively charged
(3) Electric lines of forces never cross why ?
(4) Define electron volt and show that $1 \, ev = 1.6 \times 10^{-19}$ J
(5) How can you use magnetic field to separate the isotopes of a chemical element ?
(6) Briefly give the function of cathode and Grid in C.R.O
(7) What is Lorentz force ? Give the role of electric and magnetic force in this regard ?
(8) Two charged particles are projected into a region where there is a magnetic field perpendicular to their velocities. If the charges are deflected in opposite directions , What can you say about them
(9) State Faraday's law and Lenz's law.
(10) Show that $\mathcal{E}$ and $\Delta \phi / \Delta t$ have same units.
(11) A suspended magnet is oscillating freely in a horizontal plane. The oscillation are strongly damped when a metal plate is placed under the magnet. Explain why this occur
(12) How can the power losses b minimized in a transformer

QUESTION NO. 3   **Write short answers any Eight (8) question of the following**   **16**
(1) Do bends in a wire affect its electric resistance ? Explain
(2) Why does the resistance of a conductor rise with temperature ?
(3) Give the colour code
(4) Give any two properties of parallel resonant circuit
(5) Define impedance. Give its unit
(6) How many times per second will an incandescent lamp reach maximum brilliance when connected to a 50 Hz source ?
(7) Define crystal lattice
(8) What are ductile and brittle substance ?
(9) What is coercirity ?
(10) Give the truth tables of NAND or NOR gates
(11) Make the circuit diagram of OP-amp as inverting amplifier and as night switch
(12) What is the principle of virtual ground ? Explain

QUESTION NO. 4   **Write short answers any Six (6) questions of the following**   **12**
(1) What is de-Broglie wavelength ?
(2) Will higher frequency light eject greater number of electrons than low frequency light
(3) When light shines on surface , Is momentum transferred to metal surface
(4) What is Heisenberg uncertainty principle ?
(5) Is energy conserved when an atom emits a photon of light
(6) Define decay constant and fluorescence
(7) What is nuclear reactor ?
(8) What factors make a fusion reaction difficult to achieve ?
(9) What do you understand by ' background radiations.' State two sources of this radiation

SECTION-II

Note: Attempt any Three questions from this section $8 \times 3 = 24$

5.(a) Define capacitance and Derive the expression for capacitance of parallel plate capacitor without dielectric and with dielectric between the plates
(b) A charge of 60 C passes through a wire in 1 hour and 15 minutes. What is the current in the wire ?   5, 3

6.(a) Why is energy stored in an inductor when a current flows in it ? Derive relation for energy density of magnetic field
(b) What current should pass through a solenoid that is 0.5 m long with 10000 turns of copper wire , so that it will have a magnetic field of 0.4 T ?   5

7.(a) Write a note on R.L.C series circuit. Explain your answer with the help of diagram
(b) A wire 2.5 Cm long and crossectional area 10^{-5} m^2 is stretched 1.5 mm by a force of 100 N in elastic region. Calculate (a) The strain (b) Young's Modulus   5, 5

8.(a) Discuss diode as half wave and full wave rectifier
(b) What is de-Broglie wavelength of an electron whose Kinetic energy is 120 ev   3

9.(a) What are the inner shell transitions and characteristic x-rays. Describe the production of x-rays
(b) The half-life of Sr^{90} is 9.70 hour . Find its decay constant   5, 3

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