

Fundamental of Electrical and Electronics Engg.

BRANCH :- ALL

These Questions are made for your previous exam, from PYQ and some internet....(Notes reference le Lena ek baar)

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Highly Expected + PYQ-Based + Practical Revision Set

✓ UNIT 1: Electrical Safety

- 1. What is basic electrical safety? (PYQ Based)
- 2. List five major electrical hazards with examples.
- 3. What are the key features of PPE used in electrical work? (PYQ)
- 4. What are the safety precautions while working with electrical equipment?
- 5. How would you rescue a person from electric shock?
- 6. Which fire extinguisher is used for electrical fires and why?

✓ UNIT 2: Electrical Fundamentals

- 1. Define voltage, current, resistance and power with SI units.
- 2. State and explain Ohm's Law. (PYQ + Confirmed Important)
- 3. Numerical:
 - Four resistors (3Ω, 10Ω, 5Ω, 12Ω) in series with 120V.
 Find: (i) Total Resistance, (ii) Current, (iii) Voltage drop across each.
- 4. Difference between open, closed, and short circuit.
- 5. AC vs DC supply system explain with examples.

✓ UNIT 3: Protective Devices & Wiring

- 1. Why are protective devices necessary in circuits? (PYQ)
- 2. Write short notes on:
 - o Fuse
 - o MCB
 - o ELCB
 - o RCCB
- 3. Pipe Earthing vs Plate Earthing
- 4. Name any four electrician tools and their uses.
- 5. What are the types of wiring systems used in homes?

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✓ UNIT 4: Electrical Machines & Batteries

- 1. What is a Transformer? Explain its working principle. (PYQ)
- 2. What are the differences between single-phase and three-phase induction motors?
- 3. Explain how to start and troubleshoot an induction motor.
- 4. Types of batteries and their applications.

✓ UNIT 5: Electronics & Digital Devices

- 1. Compare conductor, insulator and semiconductor with examples. (PYQ)
- 2. Explain working and application of PN Junction Diode.
- 3. What is a Rectifier?
 - Difference between Half-wave and Full-wave Rectifier (PYQ)
- 4. BJT Construction, working & application.
- 5. What is the difference between sensor and actuator? (Scoring)

Most Expected Short Notes (Write Any 4)

- PN Junction Diode
- Rectifier
- Earthing
- Fuse vs MCB
- BJT
- Wiring System
- Sensor & Actuator
- Induction Motor

Special Note for Revision:

- Diagrams: Transformer, Rectifier, Earthing, BJT
- Pocus more on: Ohm's Law, PPE, Protective Devices, Transformer, Rectifier
- High-chance repeat topics: Ohm's Law, PPE, Protective Devices, BJT