



SNS COLLEGE OF ENGINEERING, COIMBATORE – 641 107
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
ACADEMIC YEAR 2023-2024 (EVEN SEMESTER)



UNIT III: WIRING, GROUNDING, AND SAFETY

1. **The main purpose of grounding is to:**
 - a) Increase the voltage.
 - b) Provide a path for fault current.
 - c) Increase resistance.
 - d) Decrease the current.
 - **Answer: b) Provide a path for fault current.**
2. **In conduit wiring, the conduits are made of:**
 - a) Plastic.
 - b) Copper.
 - c) Steel.
 - d) Aluminum.
 - **Answer: c) Steel.**
3. **Which type of wiring is most commonly used in residential buildings?**
 - a) Conduit wiring.
 - b) Cleat wiring.
 - c) Casing and capping wiring.
 - d) Batten wiring.
 - **Answer: a) Conduit wiring.**
4. **One of the main causes of electrical accidents is:**
 - a) Short circuits.
 - b) Overloading.
 - c) Improper grounding.
 - d) All of the above.
 - **Answer: d) All of the above.**
5. **The conduit wiring system is preferred because:**
 - a) It is cheap.
 - b) It is easy to install.
 - c) It is safe and durable.
 - d) It looks better.
 - **Answer: c) It is safe and durable.**
6. **In residential wiring, the main distribution board is connected to:**
 - a) Appliances.
 - b) Main supply.
 - c) Ground.
 - d) Lights.
 - **Answer: b) Main supply.**
7. **Which type of grounding is used for safety purposes?**
 - a) System grounding.
 - b) Equipment grounding.
 - c) Neutral grounding.

- d) All of the above.
 - **Answer: b) Equipment grounding.**
8. **The primary cause of electrical fires is:**
- a) Proper insulation.
 - b) Use of high-quality materials.
 - c) Short circuits.
 - d) Correct installation.
- **Answer: c) Short circuits.**
9. **The purpose of a fuse in an electrical circuit is to:**
- a) Increase the current.
 - b) Decrease the voltage.
 - c) Protect the circuit from overcurrent.
 - d) Provide a path to ground.
- **Answer: c) Protect the circuit from overcurrent.**
10. **Which of the following is a safety device?**
- a) Resistor.
 - b) Capacitor.
 - c) Fuse.
 - d) Inductor.
- **Answer: c) Fuse.**
11. **The term "hot wire" in electrical wiring refers to:**
- a) A live wire carrying current.
 - b) A ground wire.
 - c) A neutral wire.
 - d) None of the above.
- **Answer: a) A live wire carrying current.**
12. **Which of the following is not a type of conduit used in wiring?**
- a) Rigid metal conduit.
 - b) Flexible metal conduit.
 - c) Liquid-tight flexible conduit.
 - d) Plastic conduit.
- **Answer: d) Plastic conduit.**
13. **Accident prevention in electrical installations involves:**
- a) Proper installation.
 - b) Regular maintenance.
 - c) Use of protective devices.
 - d) All of the above.
- **Answer: d) All of the above.**
14. **In a residential wiring layout, switches are connected:**
- a) In series with the load.
 - b) In parallel with the load.
 - c) In series with the power source.
 - d) In parallel with the power source.
- **Answer: a) In series with the load.**
15. **The purpose of a circuit breaker is to:**
- a) Increase the current.
 - b) Decrease the voltage.
 - c) Automatically disconnect the circuit during fault conditions.

- d) Provide a manual switch for turning off the circuit.
- **Answer: c) Automatically disconnect the circuit during fault conditions.**