



**NARSIMHA REDDY
ENGINEERING COLLEGE**

An Autonomous Institution | Affiliated to JNTUH | Approved by AICTE
Accredited by NBA & NAAC with 'A' Grade

INTRODUCTION TO ELECTRICAL ENGINEERING

Worksheet - 5

Unit 5: Electrical Installations

Choose the correct answer

1. The main function of a fuse is to
 - (a) protect the line
 - (b) open the circuit
 - (c) protect the appliance
 - (d) prevent excessive currents
2. A fuse is connected
 - (a) in series with circuit
 - (b) in parallel with circuit
 - (c) either in series or in parallel with circuit
 - (d) none of the above
3. H.R.C. fuse, as compared to a rewirable fuse, has
 - (a) no ageing effect
 - (b) high speed of operation
 - (c) high rupturing capacity
 - (d) all of the above
4. The insulating material for a cable should have
 - (a) low cost
 - (b) high dielectric strength
 - (c) high mechanical strength
 - (d) all of above
5. Which of the following insulation is used in cables?
 - (a) Varnished cambric
 - (b) Rubber
 - (c) Paper
 - (d) Any of above
6. Earthing is necessary to give protection against
 - (a) Danger of electric shock
 - (b) Voltage fluctuation
 - (c) Overloading
 - (d) High temperature of the conductors

7. The advantage of neutral earthing is
 - (a) Freedom from persistent arcing grounds
 - (b) Over voltages due to lightning can be discharged to earth
 - (c) Simplified design earth fault protection
 - (d) All of the above
8. As compared to a lead-acid cell, the efficiency of a nickel-iron cell is less due to its
 - (a) compactness
 - (b) lower e.m.f
 - (c) small quantity of electrolyte used
 - (d) higher internal resistance
9. A switchgear is device used for
 - (a) protecting an electrical circuit
 - (b) switching an electrical circuit
 - (c) switching and controlling an electrical circuit
 - (d) all the above.
10. The objective of earthing or grounding is
 - (a) to provide as low resistance possible to the ground
 - (b) to provide as high resistance possible to the ground
 - (c) to provide flow of positive, negative and zero sequence currents
 - (d) none of the above

Fill in the blanks

1. The fuse rating is expressed in terms of _____
2. The full form of MCB is _____
3. The full form of MCCB is _____
4. The _____ protects cable against mechanical injury.
5. The thickness of the layer of insulation on the conductor in cables, depends upon _____.
6. Earth wire or ground wire is made of _____
7. The capacity of a battery is expressed in terms of _____.
8. The ELCB is used to protect the circuit from the electrical _____
9. Air Blast Circuit Breaker is an automatically operated electrical switch that uses air to protect an electrical circuit from damage caused by excess _____
10. The energy consumption per day in a house using 5 tube lights of 20 W each, 3 fans of 60 W each for 3 hrs a day is _____ KWh.