

104/2015

Maximum : 100 marks

Time : 1 hour and 15 minutes

1. The supply frequency of alternating current in India :
(A) 60 Hz (B) 50 Hz
(C) 100 Hz (D) 40 Hz
2. A lead acid battery of 24 volts consists :
(A) 12 cells in parallel (B) 6 cells series
(C) 24 cells in parallel (D) 12 cells in series
3. The quality of a good conductor is :
(A) any specific resistance (B) medium specific resistance
(C) low specific resistance (D) high specific resistance
4. Unit of capacitance denotes in :
(A) Farad (B) Siemens
(C) Ohm (D) Henry
5. The term "C F L" stands for :
(A) Chloro Fluro Lamp (B) Carbon Filament Lamp
(C) Compact Fluorescent Lamp (D) Cathod Filament Lamp
6. Which of the following is a good semi conductor ?
(A) Germanium (B) Brass
(C) Mercury (D) Fibre
7. A generator converts :
(A) Electrical energy into mechanical energy
(B) Mechanical energy into electrical energy
(C) Mechanical energy into potential energy
(D) Electrical energy into kinetic energy

8. If five resistances of 5 ohm is connected in parallel the total resistance will be :
- (A) 5 ohm (B) 10 ohm
(C) 2.5 ohm (D) 1 ohm
9. Which of the following gives Direct Current ?
- (A) Transformer (B) Alternator
(C) D.C. Generator (D) A.C. Motor
10. The abbreviation "P C B" stands for :
- (A) Polythene Circuit Board (B) Printed Circuit Board
(C) Permanent Circuit Board (D) Paraffin Circuit Board
11. In a series circuit :
- (A) Voltage is divided and current will be same
(B) Current is divided and voltage will be same
(C) Current and voltage will be same
(D) Current and voltage will be divided
12. Which material is used for making heating element ?
- (A) Copper (B) Silver
(C) Nichrome (D) Carbon
13. Which material is used for making bulb filament ?
- (A) Silicon (B) Tungsten
(C) Eureka (D) Tantalum
14. Multimeter is used for measuring :
- (A) Resistance (B) Voltage
(C) Current (D) All the above
15. As per Ohm's law which statement is correct ?
- (A) $I = V/R$ (B) $V = I/R$
(C) $R = V \times I$ (D) $I = V \times R$
16. Moving coil instrument is used for measuring :
- (A) A.C. Values (B) D.C. Values
(C) Both A.C and D.C Values (D) None of the above