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Roll No. ....

**Subject:- Basics of Electrical and Electronics Engineering**

M.M. : 60

## SECTION-D

**Note:** Multiple choice questions. All questions are compulsory (6x1=6)

- Q.1 What is the unit of electrical current? (CO1)

- Q.2 Which of the following laws relates to the flow of current in a circuit? (CO2)

- Q.3 What does a transformer do? (CO4)

- a) Increase voltage      b) Decrease voltage  
c) Change AC to DC      d) Both a and b

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Q.4 Which device allows current to flow in one direction only? (CO5)

- a) Resistor                      b) Capacitor
- c) Diode                         d) Inductor

Q.5 The back EMF in a DC motor helps to : (CO3)

- a) Increase speed              b) Reduce speed
- c) Protect the motor          d) None of the above

Q.6 An AC current varies: (CO1)

- a) Constantly                  b) Randomly
- c) Periodically                d) Linearly

### SECTION-B

**Note:** Objective/Completion type questions. All questions are compulsory. (6x1=6)

Q.7 The peak value of AC is always \_\_\_\_\_ than the RMS value. (CO1)

Q.8 In a DC circuit, the flow of current is \_\_\_\_\_. (CO2)

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Q.9 A simple electric circuit requires a \_\_\_\_\_, a load, and a power source. (CO1)

Q.10 The main function of a diode is to allow current to flow in \_\_\_\_\_ direction(s). (CO5)

Q.11 The \_\_\_\_\_ measures the voltage in a circuit. (CO3)

Q.12 A motor converts electrical energy into \_\_\_\_\_ energy. (CO4)

### SECTION-C

**Note:** Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

Q.13 What is the difference between AC and DC? (CO1)

Q.14 State Ohm's Law in simple terms. (CO2)

Q.15 How does a transformer work? (CO4)

Q.16 What is electromagnetic induction? (CO3)

Q.17 Describe the basic working of a DC motor. (CO5)

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