



- Q.5 The Starting winding of a single phase motor is placed in
- Rotor
  - Stator
  - Armature
  - Field
- Q.6 Minority charge carriers of p type semiconductor is \_\_\_\_\_
- Holes
  - Electrons
  - Both
  - None
- Q.7 \_\_\_\_\_ diode is used as voltage regulator.
- Ideal diode
  - Tunnel diode
  - Photo diode
  - Zener diode
- Q.8 On which of the following effects of electric current a fuse operates?
- Photoelectric effect
  - Electrostatic effect
  - Heating effect
  - Magnetic effect
- Q.9 SCR stands for ?
- Source-controlled rectifier
  - silicon-controlled rectifier
  - source-current rectifier
  - silicon-current rectifier
- Q.10 A good servo motor should provide high torque at all \_\_\_\_\_
- Loads
  - Frequencies
  - Speeds
  - Voltages

## SECTION-B

**Note:** Objective type questions. All questions are compulsory. (10x1=10)

- Q.11 ELCB stands for \_\_\_\_\_.
- Q.12 A switch is connected to the neutral wire.(T/F)
- Q.13 The emitter of a transistor is \_\_\_\_\_ doped. (heavily / lightly )
- Q.14 What is the function of limit switch?
- Q.15 Tell the S.I unit of electrical energy.
- Q.16 What is the color of neutral wire in electric circuit?
- Q.17 An electric motor converts mechanical energy into electrical energy.(T/F)
- Q.18 Draw symbol of Zener diode.
- Q.19 Tell the S.I unit of current.
- Q.20 What is the full form of emf?

## SECTION-C

**Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

- Q.21 Differentiate between AC voltage and DC voltage ?
- Q.22 Explain the operation of MCB.
- Q.23 Explain the advantages of electrical energy over nuclear energy.
- Q.24 Write a short note on servo motor.
- Q.25 Explain any five applications of thyristors.