

### SECTION-B

Note: Short answer type questions. Attempt any six questions out of Eight questions. (6x5=30)

- Q.11 Explain V-I characteristics of diode.
- Q.12 Explain working of half wave rectifier?
- Q.13 What are filters and explain 2 types of filters?
- Q.14 Explain effects of temperature on conductivity of semiconductor.
- Q.15 Explain V - I characteristics of diode and symbols of voltage and current sources.
- Q.16 Give overview of oscillators
- Q.17 Define field intensity, electron, atom, Magnetic field & force.
- Q.18 Write a brief note on SCR.

### SECTION-C

Note: Long answer type questions. Attempt any one questions out of two questions. (10x1=10)

- Q.19 Give overview of CRO and magnetic deflection in CRO and its applications
- Q.20 Explain CB, CC and CE configuration.

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**DVOC Level 3 Sem II**  
**(Ref. & Air Cond., Medical Imaging Tech., Auto Servicing, ITM, PT, SD, AMT, FP, EMS)**

**Subject : Basic Electronics**

Time : 2 Hrs.

M.M. : 50

### SECTION-A

**Note:** Very short answer type questions . Attempt all ten question (10x1=10)

- Q.1 What is semiconductor
- Q.2 What is depletion layer
- Q.3 What is rectifier
- Q.4 What is photo electric emission
- Q.5 What is MOSFET
- Q.6 What is Potential ?
- Q.7 What is resistance
- Q.8 What is electric deflection in CRO.
- Q.9 Write is N- Type semiconductor
- Q.10 What is JFET?