

SECTION-B

Note: Short answer type questions. Attempt any six questions out of eight questions. $(6 \times 5 = 30)$

- Q.11 Describe the brief history electronics. How it affect the human life?
- Q.12 Explain the electronics and magnetic deflection in CRO.
- Q.13 Explain voltage and current sources with symbols and their graphical representation.
- Q.14 Write a note on cells and batteries.
- Q.15 Explain the effect of temperature on conductivity of semiconductor.
- Q.16 Explain the working of Zener Diode as regulator.
- Q.17 Explain the term biasing of BJT.
- Q.18 Explain the need of filter circuit in a power supply.

SECTION-C

Note: Long answer questions. Attempt any one questions out of two questions. $(1 \times 10 = 10)$

- Q.19 Define Amplifier. Explain the single stage and multi stage amplifiers.
- Q.20 Write short notes on any two:
- Thyristor and its family
 - Photo diode
 - Ohm's law

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Roll No.

2nd Sem, Level 3 / DVOC (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 questions. Attempt all ten questions. $(10 \times 1 = 10)$

- Define atom
- Define electric field.
- What is unit of Current?
- Expand CRO.
- Define internal impedance of source.
- Define Insulator.
- Define clamper circuit.
- Define rectifier.
- Expand JFET.
- Define oscillator.