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**DVOC (Level 3)**

**2nd Sem.**

**Subject : Basic Electronics**

Time : 2 Hrs.

M.M. : 50

### **SECTION-A**

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

- Q.1 Expand CMOS
- Q.2 Draw symbol of NPN transistor.
- Q.3 What is Depletion layer ?
- Q.4 What is forward biasing of a diode?
- Q.5 What is Electric field?
- Q.6 What is atom?
- Q.7 What is Ohm's Law?
- Q.8 What are Cells and Batteries?
- Q.9 Write is N-Type Semiconductor.
- Q.10 What is Zener Diode?

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### **SECTION-B**

**Note:** short answer type questions. Attempt any six questions out of eight questions. (6x5=30)

- Q.11 Explain operation of PNP transistor.
- Q.12 Explain working of single stage Amplifiers?
- Q.13 What is clamping and explain types of Clampers?
- Q.14 Explain photo electric emission.
- Q.15 Explain V-I characteristics of diode and symbol of voltage and current sources.
- Q.16 Give overview of CRO and applications of CRO.
- Q.17 Define Potential, Energy, Current, Magnetic field & Force.
- Q.18 Write a brief note on DIAC and TRIAC.

### **SECTION-C**

**Note:**Long answer questions. Attempt any one questions out of two questions. (1x10=10)

- Q.19 Explain Diode as Full wave and Half Wave rectifiers.
- Q.20 Explain CB, CC and CE, configuration.

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