

No. of Printed Pages : 4
Roll No.

220824

**2nd Sem / Computer, Computer (For Speech
and Hearing Impaired)**

Subject : Analog Electronics

Time : 3 Hrs.

M.M. : 60

SECTION-A

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

- Q.1 Bonds formed by sharing of electrons is called.
- a) Metallic bond b) Ionic bond
c) Covalent bond d) Shared bond
- Q.2 A semiconductor has _____ number of junctions.
- a) 2 b) 3
c) 4 d) 1
- Q.3 In a PNP transistor the collector current is mainly due to _____
- a) Holes b) Electrons
c) Protons d) None

Q.4 PUSH PULL amplifier uses _____ amplifiers

- a) Two b) One
- c) Four d) None

Q.5 Oscillators uses _____ feedback.

- a) Positive b) Negative
- c) Sinusoidal d) None

Q.6 Value of CMRR is _____ for an ideal OPAMP:

- a) Zero b) Infinity
- c) Moderate d) None

SECTION-B

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

Q.7 Expand CMRR.

Q.8 What is amplifier?

Q.9 What is rectifier?

Q.10 Draw symbol of NPN Transistor.

Q.11 What is doping

Q.12 Expand MOSFET.

SECTION-C

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

Q.13 Explain Rectifiers and its types.

Q.14 Explain CE Input and Output Characteristics.

Q.15 Explain the working of Bridge full wave rectifier.

Q.16 Explain RC Phase shift oscillator working.

Q.17 Explain working of Thermistor.

Q.18 Explain N and P type semiconductors

Q.19 Explain Voltage divider biasing method.

Q.20 Define OPAMP and its applications.

Q.21 Explain regulated power supply and draw its block diagram.

Q.22 What is feedback, list advantages of positive feedback.

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

Q.23 Explain types of filters and its working in brief.

Q.24 Explain working of Push Pull Amplifier.

Q.25 Differentiate between BJT and MOSFET.