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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 The number of diodes required in half wave rectifier. (CO3)

a) 4 b) 2
c) 1 d) None

Q.2 Diode normally works in (CO1)

a) Forward Bias b) Reverse Bias
c) Both d) None

Q.3 Majority carriers in P-type semiconductors is (CO1)

a) Holes b) Electrons
c) Both d) None

Q.4 The temperature Coefficient of Semiconductor is (CO1)

a) Positive b) Negative
c) Zero d) None of the above

Q.5 BJT Stands for (CO2)

a) Bi-junction transfer
b) Blue Junction Transfer
c) Bipolar Junction Transistor
d) Base junction Transistor

Q.6 An oscillator converts_____ (CO4)

a) A.C Power to D.C Power
b) D.C. Power to A.C Power
c) Mechanical Power into A.C Power
d) None of the above

SECTION-B

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

Q.7 Expand MOSFET. (CO2)

Q.8 Define Knee Voltage. (CO1)

Q.9 What is Op-Amp? (CO5)

Q.10 What is Filter? (CO3)

Q.11 Define Doping? (CO1)

Q.12 FET stands for_____. (CO4)

SECTION-C

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

Q.13 Explain mechanism of current in PNP transistor. (CO2)

Q.14 Draw and explain a potential divider circuit. (CO2)

Q.15 Difference between intrinsic and extrinsic semiconductor (CO1)

Q.16 Explain working of inverting amplifier? (CO5)

Q.17 Explain working of a RC Phase shift oscillator. (CO4)

Q.18 Discuss Working of 7805Regulator (CO3)

Q.19 Write short note on Pi Filter. (CO3)

Q.20 What is need of a Multistage amplifier. (CO4)

Q.21 Explain Formation of Potential Barrier of P-N Junction. (CO1)

Q.22 Write short note on : (CO2)

a) FET

b) MOSFET

SECTION-D

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

Q.23 Differentiate conductors, semiconductors and insulators on the basis of their energy level diagram. (CO1)

Q.24 Explain the working of bridge rectifier. (CO3)

Q.25 Write short note on : (CO5)

a) Op-AMP

b) CRT