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2nd Sem / Branch : Computer Engg.
Sub.: Analog Electronics

Time : 3Hrs. M.M. : 60

SECTION-A

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

Q.1 The number of diodes required in centre tap rectifier

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

Q.2 Diode normally works in

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

Q.3 Transistor can work as switch

a) Yes b) No

Q.4 _____ type of feedback is used oscillators.

a) Negative feedback b) Positive feedback

Q.5 FET is essentially a

a) Current driven device
b) Voltage driven device
c) Power driven device
d) None

Q.6 Majority carriers in N-Type semiconductor is

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

SECTION-B

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

Q.7 What is recombination of electrons and holes?

Q.8 Define doping?

Q.9 Define Biasing.

Q.10 What is rectifier?

Q.11 What is Class A amplifier?

Q.12 Define Slew rate.

SECTION-C

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

Q.13 Explain working of Zenor diode as voltage regulator.

Q.14 Explain intrinsic semiconductor.

Q.15 Explain P type semiconductor.

Q.16 Explain working of transistor as an amplifier.

Q.17 Explain voltage divider biasing.

Q.18 Explain working of half wave rectifier.

Q.19 Explain working of 7805 voltage regulator.

Q.20 What is feed back? Write advantages of feed back.

Q.21 Explain working of Inverting amplifier.

Q.22 Explain working of 555 timer as astable multivibrator.

SECTION-D

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

Q.23 Explain VI characteristics of P-N junction diode.

Q.24 Explain working and frequency response of two stage RC coupled amplifier.

Q.25 Write short note on (any two)

a) Mosfet

b) RC Phase shift oscillator

c) Applications of op-amp