No. of Printed Pages : 4 221034
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3rd Sem / Branch : ECE
Sub.: Electronic Devices and Circuits - II

Time : 3Hrs. M.M. : 60

SECTION-A

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

Q.1 In multi stage amplifier capacitor is used (CO1)

a) To match impedance
b) To couple two stages
c) To limit the bandwidth
d) To prevent DC mixing with input or output

Q.2 The push pull circuit must use operation? (CO2)

a) Class A b) Class C
c) Class B d) Class AB

Q.3 Distortion is an amplifier with negative feedback? (CO3)

a) Increases b) Decreases
c) Does not change d) None of the above

Q.4 An oscillator requires?

a) Positive feedback
b) Negative feedback
c) An amplifier with positive feedback
d) An amplifier with negative feedback

Q.5 A tuned circuit uses (CO4)

a) R-L
b) R-C
c) L-C
d) Purely resistive Element

Q.6 In a multivibrator circuit (CO5)

a) Output is continuous
b) No feedback is provided
c) Negative feedback is provided
d) When one transistor is ON & other is OFF.

SECTION-B

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

Q.7 A switch has _____ states? (CO5)

Q.8 Define slew rate. (CO7)

Q.9 What is heat sink? (CO2)

Q.10 What is negative feedback? (CO3)

Q.11 Write any one difference between colpitts and Hartley oscillator? (CO4)

Q.12 What is the range of audio frequency signal? (CO1)

SECTION-C

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

Q.13 What are multi stage amplifier. Explain the need of multi stage amplifier. (CO1)

Q.14 Write the difference between voltage and power amplifier? (CO2)

Q.15 What is oscillator. Explain bark hausen criteria for oscillation? (CO4)

Q.16 Explain the working principal of transistor as a switch? (CO5)

Q.17 What is emitter follower? Write its application also. (CO2)

Q.18 Explain the working principle of push pull amplifier? (CO2)

Q.19 What are operational amplifier? Explain operational amplifier as an inverter. (CO5)

Q.20 What is Feedback? Explain the basic principle of feedback. (CO3)

Q.21 Discuss about class A power amplifier with its advantages and disadvantages. (CO2)

Q.22 How Hartley oscillator generate oscillation? (CO4)

SECTION-D

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

Q.23 Explain RC coupled amplifier with its block diagram and frequency response curve? (CO1)

Q.24 How a stable multivibrator work? Explain its application also. (CO5)

Q.25 Explain the therms : (CO5)

a) CMRR b) PSRR

c) Slew Rate d) Input offset current