

Roll No.

3rd Sem. / ECE, ECE
(For Speech and Hearing Impaired)

Time : 3 Hrs.

M.M. : 60

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

- RC Coupling
- Transformer Coupling
- Direct Coupling
- All of above

- a) To increase the output power
- b) To reduce the heat losses in the transistor
- c) to increases the voltage gain of the power amplifier
- d) To increases the collector dissipation rating of the transistor

221034

a) Current Gain
b) Impedance matching
c) Voltage Gain
d) None of the above

a) 180 b) 360
c) 90 d) 0

- A stable multi vibrator
- Mono stable multi vibrator
- Either a or b
- None of the above

- a) Infinite Voltage Gain
- b) Infinite Input Resistance
- c) Zero output Resistance
- d) All of the above

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

(2) 221034

- Q.8 What is collector efficiency? CO-2
 Q.9 Positive feedback is also called? CO-3
 Q.10 Expand CMRR. CO-5
 Q.11 Astable multivibrator has _____ stable state. CO-5
 Q.12 Write any advantages of negative feedback. CO-4

SECTION-C

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

- Q.13 Explain the importance of impedance matching in an amplifier. CO-2
 Q.14 Draw the circuit diagram of transformer coupled amplifier and explain its working. CO-1
 Q.15 What is feedback? Explain the types of feedback. CO-3
 Q.16 Differentiate between Damped and Undamped oscillation. CO-4
 Q.17 What are multivibrator? State the principle on which it works. CO-5
 Q.18 Write the Application of OP-Amplifier. CO-5
 Q.19 Explain class B power amplifier. CO-2
 Q.20 What are the advantages of tuned amplifier? CO-4
 Q.21 Explain the terms:- CO-1
 a) Bandwidth
 b) Frequency response

- Q.22 What are the practical applications of emitter follower? CO-4

SECTION-D

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

- Q.23 Draw the circuit of wein bridge oscillator and explain its working. CO-4
 Q.24 Explain the push pull amplifier with its neat and clean diagram. CO-1
 Q.25 Draw and explain the pin configuration of IC 741 OP-amplifier. CO-5

(**Note:** Course outcome/CO is for office use only)