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

**Subject : Electronic Devices and Circuits-II**

Time : 3 Hrs.

M.M. : 60

**SECTION-A**

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

Q.1 The final stage of an amplifier uses CO-1

- a) RC Coupling
- b) Transformer Coupling
- c) Direct Coupling
- d) All of above

Q.2 Heat sink is used in power amplifier circuits. CO-2

- 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

Q.3 Emitter follower is used for CO-3

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

Q.4 RC phase shift circuit produces a phase shift of CO-4

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

Q.5 IC 555 timer can be used as \_\_\_\_\_ CO-5

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

Q.6 An ideal operational amplifier has CO-5

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

**SECTION-B**

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

Q.7 Gain of multistage amplifier is? CO-1

(1)

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(2)

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- 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:-  
     a) Bandwidth  
     b) Frequency response

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- 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)

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