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**3rd Sem / ECE / ECE (For speech & hearing Impaired)**

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

Time : 3Hrs.

M.M. : 60

**SECTION-A**

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

Q.1 RC coupled amplifiers are used for the amplification of \_\_\_\_\_

- a) Audio signal
- b) RF signal
- c) Microwave signal
- d) None of these

Q.2 Transformer coupling is an example of \_\_\_\_\_

- a) Direct coupling
- b) AC coupling
- c) DC coupling
- d) Impedance coupling

Q.3 With negative feedback, the bandwidth of an amplifier \_\_\_\_\_

- a) increases
- b) decreases
- c) becomes zero
- d) None of the above

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Q.4 An oscillator always needs an amplifier with \_\_\_\_\_

- a) Negative feedback
- b) Positive feedback
- c) Both feedback
- d) LC tank circuit

Q.5 A tuned voltage amplifier is used to amplify signal of \_\_\_\_\_

- a) low frequency
- b) medium frequency
- c) high frequency
- d) None of the above

Q.6 Transistor can be used as \_\_\_\_\_ for application

- a) switch
- b) amplifier
- c) inverter
- d) All the above

**SECTION-B**

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

Q.7 Define CMRR.

Q.8 What is negative feedback?

Q.9 What is multistage amplifier?

Q.10 What is voltage amplifier?

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Q.11 What is Astable multivibrator?

Q.12 What is slew rate?

### **SECTION-C**

**Note:** Short answer type questions. Attempt any eight questions out of ten questions.  $(8 \times 4 = 32)$

Q.13 Explain transistor as a switch.

Q.14 Explain the working of class A amplifier.

Q.15 Explain working of Hartley oscillator.

Q.16 Explain the Barkhausen condition for oscillations.

Q.17 Explain the difference between voltage and power amplifier.

Q.18 Explain working of RC coupled amplifier.

Q.19 Explain pin configuration of IC 711.

Q.20 Explain OPAMP as adder and substractor.

Q.21 Explain gain of an amplifier.

Q.22 Explain the use of positive feedback.

### **SECTION-D**

**Note:** Long answer type questions. Attempt any two questions out of three questions.  $(2 \times 8 = 16)$

Q.23 Explain block diagram of IC555 and its working and applications.

Q.24 Explain push pull amplifier with diagram and its advantages and disadvantages.

Q.25 Explain RC coupled amplifier with emitter bypass capacitor.