

No. of Printed Pages : 4  
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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 frequency response of transformer coupling is  
a) good b) very good  
c) poor d) none
- Q.2 Which coupling device is used in RC coupled amplifier  
a) inductor b) capacitor  
c) transformer d) diode
- Q.3 The class A power amplifiers have \_\_\_\_\_  
a) less power b) less efficiency  
c) less distortion d) all of the above
- Q.4 How many types of feedback are there  
a) 1 b) 2  
c) 3 d) 4

(1)

221034

- Q.5 Which of the following oscillator cannot be used in low frequency oscillations?  
a) colpitts b) wein bridge  
c) RC phase shift d) both a & b
- Q.6 Bistable multivibrator has \_\_\_\_\_ stable states.  
a) 1 b) 2  
c) 3 d) 0

**SECTION-B**

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

- Q.7 In the initial stage of multistage amplifier, RC coupled amplifier is used. (True/False)
- Q.8 \_\_\_\_\_ amplifier is used to increase the power level of weak signal.
- Q.9 Expand PSRR.
- Q.10 \_\_\_\_\_ feedback is used in amplifiers. (Positive /Negative)
- Q.11 IC 741 has \_\_\_\_\_ number of pins.
- Q.12 Name any two types of LC oscillator.

**SECTION-C**

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

- Q.13 What is multistage amplifier? How we can calculate overall gain of multistage amplifier.

(2)

221034

- Q.14 Explain the importance of impedance matching in amplifiers.
- Q.15 Write a short note on class C amplifier
- Q.16 Explain the working of double tuned voltage amplifier.
- Q.17 Explain the effect of negative feedback on distortion and bandwidth of an amplifier.
- Q.18 Explain emitter follower with circuit diagram.
- Q.19 List the applications of operational amplifier.
- Q.20 How transistor work as a switch.
- Q.21 Draw and explain the pin diagram of 741 IC
- Q.22 Write a short note on monostable multivibrator.

#### **SECTION-D**

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

- Q.23 Explain transformer coupled amplifier with its frequency response and advantages.
- Q.24 Explain the construction and working of class B push pull amplifier with its advantages.
- Q.25 Explain the working of crystal oscillator with the help of circuit diagram. Also write its advantages.

(3)

221034

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221034