

Total No. of Questions :8]

[Total No. of Printed Pages :2

Roll No

EX - 405

B.E. IV Semester

Examination, December 2012

Electronic Devices and Circuits - II

Time : Three Hours

Maximum Marks : 70/100

Note : 1. Attempt any five questions.

2. All questions carry equal marks.

1. a) Explain the principle working of op-Amp.
b) Discuss the frequency compensation techniques.
2. Explain the working of the circuit with op-Amp in the following applications:
 - i) Logarithmic Amplifier.
 - ii) Instrumentation circuit.
3. a) Discuss the designing of Band pass active filter.
b) Discuss the functions of 556 function generator IC.
4. a) Explain the working of electro-dynamics horn type loud speaker.
b) Discuss the working of magnetic recording system.

5. Discuss the principle working of-
 - i) Klystron tube
 - ii) MASER

6. Explain the following:
 - i) Velocity modulation
 - ii) Avalanche effect
 - iii) Gun effect

7.
 - a) Discuss the characteristics of TTL with schottky devices.
 - b) Explain the working of CMOs and their transfer characteristic.

8. Write short notes on any two:
 - a) BWO
 - b) ECL logic family
 - c) CMOs inverter
