

(DEC 314)

B.Tech. DEGREE EXAMINATION, MAY - 2015

(Examination at the End of Third Year)

ELECTRONICS & COMMUNICATIONS

Paper - IV : Pulse Circuits

Time : 3 Hours

Maximum Marks : 75

Answer question No.1 compulsory

(15)

Answer ONE question from each unit

(4 × 15 = 60)

- 1) a) Define low-pass filter.
- b) Define tilt.
- c) What is the o/p expression for low pass filter?
- d) What is Ringing circuit?
- e) State the conditions for good differentiator.
- f) Define voltage limiter.
- g) When transistor acts as a switch.
- h) How many stable states are there in bistable multivibrator.
- i) Define Duty cycle.
- j) Conditions to be oscillator?

UNIT - I

- 2) How the low pass circuit acts as good Integrator explain with an example.

OR

- 3) Analyse the response of RC high pass circuit with different i/p's?

UNIT - II

4) Define clipper and explain the classification of clippers with operation.

OR

- 5) a) What is clamper and explain the operation of any two clampers.
b) How the transistor acts as switch.

UNIT - III

6) Write short notes on :

- a) Commutating capacitors.
b) Fixed bias.
c) Self bias.

OR

- 7) a) At which condition the astable multivibrator acts as square wave generator?
b) Write & explain any two applications of astable multivibrator.

UNIT - IV

8) Explain the simple current sweep circuit with neat sketches.

OR

9) Draw & explain the operation of astable blocking oscillator.

