Total No. of printed pages = 2

Et-501/CE-II/5th Sem/2014/N

COMMUNICATION ENGINEERING – II

Full Marks – 70

Pass Marks – 28

Time – Three hours

The figures in the margin indicate full marks for the questions.

Answer any *five* questions.

1. (a) Draw the circuit diagram of a Foster seeley discriminator and explain its principle of operation. 8

   (b) Explain how modulating signal can be detected from an AM signal using a practical linear diode detector circuit. 6

2. Draw the block diagram of an AM transmitter and explain its working principle. 5+9=14

3. (a) What are the advantages of superhet receivers over TRF receivers ? 5

[Turn over

(b) Draw the block diagram of an FM super heterodyne receiver and explain its principle of operation. 3+6=9

4. Draw the block diagram of a space diversity receiving system and explain how it can be used to overcome fading. 5+9=14

5. Explain PAM, PWM, PPM and PCM with proper waveform diagram. 14

6. What is noise ? Classify noise. Explain briefly different kinds of noise. 2+3+9=14

7. What is multiplexing ? Explain any one of it with the help of proper diagram. 2+12=14

8. Write short notes on any *two* : 7×2=14

(a) ASCII and binary codes

(b) ASK, FSK and PSK

(c) Pre-emphasis and de-emphasis circuit

(d) PM demodulator

(e) AGC.