

Total No. of printed pages = 2

Et-501/CE-II/5th Sem/2015/M

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 *seven* questions.

1. Write in detail about noise in communication system. 10
2. (a) Compare AM and FM systems.
(b) Describe the operation of an envelope detector. 5+5=10
3. Explain in detail using block diagram a generalised transmission system. 10
4. What do you understand by multiplexing ? Explain TDM and FDM. 2+4+4=10

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5. Explain the working of a PCM transmitter and receiver with proper diagram. 10
6. Explain in detail the operation of a superheterodyne receiver. 10
7. Explain with waveform PAM, PWM and PPM. 4+3+3=10
8. Describe what is fading. Describe ways to minimize fading. 2+8=10
9. Describe a communication receiver with its special features. 10
10. Write notes on any *two* : 5×2=10
 - (a) FSK and ASK
 - (b) Foster Suley discriminator
 - (c) VSB transmitter
 - (d) SSB receiver.