Total No. of Questions : 8]

Roll No

MEDC-302(A)

M.E./M.Tech., III Semester

Examination, December 2020

Advanced Digital Communication

(Elective-I)

Time : Three Hours

Maximum Marks 70

- *Note:* i) Attempt any five questions.
 - ii) All questions carry equal marks.
- 1. Give a brief introduction to the modulation techniques like BPSK, BFSK and QPSK.
- 2. a) Explain about the optimum receivers for signals corrupted by AWGN.
 - b) Discuss about optimum receivers for PCM.
- 3. a) Discuss about estimation of signal parameters, carrier phase and symbol timing.
 - b) Determine probability of error in detection of PAM with gero ISI
- 4. a) Discuss about the signal design for band limited channels and their characterization.
 - b) Discuss about modulation codes for spectrum spacing.
- 5. a) Discuss about optimum receivers for channels with ISI and AWGN.
 - b) Discuss about adaptive linear and adaptive decision feedback equalizer.

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- 6. a) Explain about the direct sequence spread spectrum signals.
 - b) Explain about the frequency hopped spread spectrum signals.
- 7. a) Discuss about the diversity techniques for padding multipath channels.
 - Discuss about the coded waveform for padding channels. b)
- reacing ***** 8. Write short notes on any two of the following :

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