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Total No. of Questions: 8]

[Total No. of Printed Pages: 2

Roll No

MEDC-302(A)

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

Examination, December 2017

Advanced Digital Communication

(Elective-I)

Time: Three Hours

Maximum Marks: 70

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Note: i) Attempt any five questions.

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ii) All questions carry equal marks

- Discuss the principle working of QPSK modulation technique.
 - Explain the use of optimum receive for signals corrupted by AWGN and their performance of memory less channel.
- Discuss the principle working of BPSK technique.
 - Discuss the use of optimum receivers for PCM.
- 3. Discuss about signal design band limited channels and their characterization.
- Discuss about the probability of error in detection of PAM with zero ISI.
 - Discuss about the modulation codes for spectrum spacing.
- Discuss about multi channel and multi carrier systems.
 - Explain the principle working of frequency hopped spread spectrum technique.

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- Discuss the use of optimum receivers for channels with ISI and AWGN.
 - Explain adaptive linear and adaptive decision feedback equalizer.
- Discuss about frequency non selective slowly padding channels.
 - Discuss about the coded waveform for padding channels and their applications.
- Write short notes on any two of the following:
 - Link Budget analysis
 - **OFDM** b)
 - Diversity techniques for padding multipath channels.

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PTO