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## MEDC-302(A) M.E./M.Tech., III Semester

Examination, December 2016

Advanced Digital Communication (Elective-I)

Time: Three Hours

Maximum Marks: 70

Note: i) Attempt any five questions.

- ii) All questions carry equal marks.
- 1. a) Explain the principle working of BPSK system.
  - b) Discuss the working of optimum receiver for PCM.
- 2. a) Explain the working of QPSK system.
  - b) Discuss briefly about the link budget analysis.
- a) Discuss about estimation of carrier phase and symbol timings.
  - Discuss about probability of error in detection of PAM with zero ISI.
- 4. a) Discuss about modulation codes for spectrum spacing.
  - Discuss the working of optimum receiver for channels with ISI and AWGN.

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- a) Discuss about linear equalization and decision feedback equalization.
  - b) Explain adaptive decision feedback equalizer.
- a) Explain the principle working of direct sequence spread spectrum technique.
  - Explain the principle working of frequency hopped spread spectrum techniques.

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- a) Discuss the characterization of fading multipath channels.
  - Discuss about coded waveform for padding channels and their application.
- 8. Write short notes on any two of the following:
  - a) OFDM
  - b) Non selective slowly padding channels
  - c) BFSK system

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