

**R09**

Code: 9A13802

B.Tech IV Year II Semester (R09) Advanced Supplementary Examinations, July 2013

**TELEMETRY AND TELECONTROL**

(Common to E.Con.E and EIE)

Time: 3 hours

Max. Marks: 70

Answer any FIVE questions

All questions carry equal marks

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- 1 (a) Explain about functional blocks of telemetry system  
(b) What is the importance of power line carrier communication?
- 2 (a) Briefly explain about inter symbol interference.  
(b) Write about modulation codes and explain in detail.
- 3 Explain the formulation of PLL, and how PLL works as demodulator.
- 4 Explain synchronous and asynchronous time division multiplexing of PCM signals.
- 5 Write briefly about digital transmission system in satellite telemetry.
- 6 Draw the block diagram of coherent optical fiber communication system and explain.
- 7 Explain about telecontrol apparatus and telecontrol using information theory.
- 8 Write short notes on:
  - (a) IRIG standard.
  - (b) TT&C subsystems.
  - (c) Digital techniques in telecontrol.

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