

Code No: 138HB**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****B. Tech IV Year II Semester Examinations, September - 2020****TELEMETRY AND TELECONTROL****(Electronics and Communication Engineering)****Time: 2 hours****Max. Marks: 75**

Answer any Five Questions
All Questions Carry Equal Marks

- 1.a) Conclude the need of Telemetry system and Explain the electrical telemetry system.
b) Illustrate Line and channel coding. [8+7]
- 2.a) Distinguish Frequency and Non-electrical methods of Telemetry.
b) Explain about modulation codes. [8+7]
- 3.a) Compare TDM-PAM and TDM-PCM systems.
b) Examine the working of PM circuit with neat sketch. [8+7]
- 4.a) Explain the need of FDM in Telemetry.
b) Examine the working of differential PCM with a neat sketch. [7+8]
5. a) Discuss the need of TT&C sub systems and explain their working.
b) Identify the features of Ethernet telemetry. [9+6]
- 6.a) Compare the Features of Zigbee Telemetry with other Modern Telemetry.
b) Explain about the TT&C Service. [7+8]
- 7.a) What are the Detectors of Optical Telemetry? Explain the principle of operation of any one.
b) How could you detect message signal using Receiver circuit? Elaborate. [8+7]
- 8.a) Explain the importance of Digital Techniques of Telecontrol.
b) How could you apply Telecontrol using information Theory? Explain. [8+7]

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