Printed Pages: 3



EEC-046

(Following Paper ID and Ro	to be	filled	in you	r An	swer	Book)
PAPER ID: 121752						
Roll No.						

B. Tech.

(SEM. VII) (ODD SEM.) THEORY EXAMINATION, 2014-15 TELEMETRY AND DATA TRANSMISSION

Time: 3 Hours]

[Total Marks: 100

1 Attempt any FOUR parts :

5x4=20

- (a) What is sampling theorem? List the important components of a telemetry system.
- (b) Define Aliasing. How can you overcome it?
- (c) Describe different types of formats. Explain Frame format.
- (d) Write short notes on PLL.
- (e) Give the block diagram of aerospace telemetry system.
- (f) Comment on Multiplexing techniques in Tele control.

- (a) Compare low level and high level multiplexing techniques for data handling systems.
- (b) With a neat block diagram compare FSK, PSK and QPSK.
- (c) Explain the steps for installation of telecontrol systems.

3 Attempt any TWO parts:

10x2=20

- (a) List the different types of interfaces. Compare RS423 with RS232C interface.
- (b) (i) Give basic block diagram of telemetry system and explain each component
 - (ii) What are the different types of telemetry system ? Explain.
- (c) Mention the different command systems. Explain any two command systems.

4 Attempt any TWO parts:

10x2=20

- (a) Write short notes on:
 - (i) Frame synchronizer codes
 - (ii) R. F. links
- (b) Explain in detail about Programmable controllers for factory automation.
- (c) State error detection and error correction. Explain error detection code with an example.

- (a) Explain the functioning of Data reception systems.
- (b) Comment in detail about DM code converters.
- (c) Write short notes on:
 - (i) sampling theorem
 - (ii) sampling process
 - (iii) convolution