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Total No. of Questions: 5]

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Roll No.

EI/IC-7102

B.E. VII Semester

Examination, December 2016

Data Acquisition System

Time: Three Hours

Maximum Marks: 70

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Note: i) Answer five questions. In each question part A, B, C is compulsory and D part has internal choice.

- ii) All parts of each question are to be attempted at one place.
- iii) All questions carry equal marks, out of which part A and B (Max. 50 words) carry 2 marks, part C (Max. 100 words) carry 3 marks, part D (Max. 400 words) carry 7 marks.
- iv) Except numericals, Derivation, Design and Drawing etc.

Unit - I

- 1. a) What are different types of display systems?
 - Draw the diagram of seven segment dot matrix display system.
 - c) Explain in brief plasma display.
 - Explain the working of LCD display with the help of neat diagrams.

OR

Write a detailed note on vapor display along with suitable diagrams.

Unit - II

- 2. a) What do you understand by Recorders?
 - b) What is Null type recorder?
 - Explain potentiometer type recorder by giving neat diagrams.

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d) Describe the principle of operation of magnetic tap recorder with neat diagrams.

OR

What are the advantages of digital tape recorders. Explain the same.

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Unit - III

- 3. a) Draw the block diagram of basic telemetry system.
 - b) What is Position Telemetry?
 - c) Explain Current telemetry.
 - d) Describe interference and grounding regarding telemetry.

OR

What are the different types of antennas used in telemetry? Explain any one of them.

Unit - IV

- a) Name various data transfer techniques.
 - b) What is DMA controller?
 - Name various serial data transmission standards.
 - d) Draw the block diagram of Local Area Network and explain.

OR

What are TCP/IP protocols, and why they are required?

Unit - V

- a) Give the significance of data acquisition system.
 - b) What do you understand by single channel DAS?
 - Explain with neat diagrams multi-channel DAS.
 - d) How microprocessor is useful in DAS explain with diagrams.

OR

Explain the need of microcontroller in DAS with neat sketches.

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