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[Total No. of Printed Pages :2

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## EI/IC - 8303

## **B.E. VIII Semester**

Examination, June 2016

## **Intelligent Instrumentation**

(Elective - III)

Time: Three Hours

Maximum Marks: 70

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.
- 1. a) List the advantages of digital transducers.
  - b) What is Real time system?
  - c) What do you mean by computer ports? Discuss various types of ports.
  - d) What do you understand by dump and intelligent instruments? Give examples.

OR

Discuss about optical shaft encoder communication standards.

- 2. a) What is loop controller?
  - b) Compare continuous and both modes.
  - c) Why signal conditioner is used in a DAS?
  - d) List and discuss each block of a General Data Acquisition System.

OR

Explain the working principle of data loggers and list their applications.

- 3. a) What data types are used in Lab view programming?
  - b) List the applications of Lab view.
  - c) Differentiate between controls and indicators.
  - d) What do you mean by Architecture of virtual instrument? Discuss in detail.

OR

What is G programming, explain by giving an example.

- 4. a) What is the use of libraries in G programming?
  - b) Write syntax for For loop and While loop.
  - c) What is the differences between bundled and unbundled strings?
  - d) What do you mean by local and global variables, explain by giving an example.

OR

What is Direct digital encoding? Also explain digital encoders?

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- i. a) What is clusters?
  - b) What is Case structure?
  - c) How to interface sensors with Lab view applications?
  - Write down the steps for developing a software in Lab view.

OR

Write the software for level measurement with indications for low and High levels.

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PTO

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