Total No. of Questions :8]   *[Total No. of Printed Pages :2*

Roll No ....

EI/IC-8303

B.E. VIII Semester

Examination, June 2017

Intelligent Instrumentation

(Elective-III)

Time : Three Hours

Maximum Marks : 70

Note: i) Attempt any five questions.
ii) All questions carries equal marks.
iii) Assume suitable data wherever necessary.

1. a) Differentiate between Intelligence and Dumb Instruments. 7

   b) Explain the working of Digital Transducer. 7

2. a) Explain the concept of Real time systems and its application. 7

   b) Discuss optical shaft encoder. 7

3. a) Discuss Data Acquisition System (DAS) 7

   b) Explain single and multi loop controller. 7

4. a) Discuss Data logger and its applications. 7

   b) Discuss Logic Control System. 7

5. Discuss Architecture of virtual instrument and its relation to operating system. 14

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6. a) Discuss Graphical User Interface (GUI) 7

   b) Discuss E-programming structure. 7

7. a) Discuss local and global variable associated with E-programming. 7

   b) Discuss software development for level measurement. 7

8. Write short notes on any two : 14

   a) Structure arrays and clusters

   b) File I/O

   c) Attribute modes

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