

### SECTION-C

**Note:** Long answer type questions. Attempt any three questions. 3x10=30

- Q.3 What is chart recorder? Where it is used. Discuss its merits and demerits.
- Q.4 Explain different types of error. How these can be minimized.
- Q.5 Explain the working of X-Y recorder with the help of diagram.
- Q.6 Draw and explain various building blocks of instrumentation system in detail.
- Q.7 Write short note on any two:
- e) Printing devices
  - f) Seven segment display
  - g) Design experiments of display system
  - h) Field Buses

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**3rdSem. / Instrumentation & Control /  
Electronics & Instrumentation  
Subject : Principles of Instrumentation**

Time : 3 Hrs.

M.M. : 100

### SECTION-A

**Note:** Very Short Answer type questions. Attempt any 15 parts. (15x2=30)

- Q.1
- a) Data logger
  - b) Scanner
  - c) Response Time
  - d) Reliability
  - e) Grounding
  - f) Primary sensing element
  - g) Order of system
  - h) Cost effectiveness
  - i) Process variables

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