

SECTION-C

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

Q.3 What is serial port? Explain its construction and working.

Q.4 What is data acquisition system? Explain it.

Q.5 What is computer based control or instrumentation system? Explain it.

Q.6 What is C.N.C ? Explain its with neat diagram.

Q.7 Write short notes on any two :

- a) LAR view
- b) PCL-225
- c) GINIE
- d) D.A.C.

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Roll No.

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6th Sem. / I.C / E/I

Subject : Computer aided Instrumentation

Time : 3 Hrs.

M.M. : 100

SECTION-A

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

Q.1 Define/Explain the following:-

- a) Bus
- b) Instrumentation.
- c) Measurement
- d) Transducer
- e) Feed back
- f) Control system
- g) Error signal
- h) Timer

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- i) E.T.S.A
- j) P.L.C
- k) Demultiplexer
- l) A.D.C
- m) System software
- n) A.L.U
- o) OP.AMP
- p) G.P.I.B.
- q) Amplifier
- r) Attenuator

SECTION-B

Note: Short answer type questions. Attempt any ten parts 10x4=40

- Q.2
- i) What is OPAMP?
 - ii) Write short note on Multiplexer.

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- iii) What is signal conditioning? Explain.
- iv) What is power plant? Explain it.
- v) What is OPTO INPUT OUTPUT CARD.
- vi) Discuss analog to digital converter.
- vii) What is process control? Explain.
- viii) Write short note on parallel port.
- ix) What is U.S.B port.
- x) What is G.P.I.B.
- xi) Write a short note on Rs -232.
- xii) What are advantages of computer based system.
- xiii) What is demultiplexer?
- xiv) What are advantages & disadvantages of serial communication?
- xv) What is supervisory control?

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