

SECTION-C

Note: Long answer type questions. Attempt any three questions. 10x3=30

- Q.3 Explain different functional elements of a measuring system.
- Q.4 Explain working of piezoelectric accelerometer.
- Q.5 Explain method of measurement of capacitance.
- Q.6 What is photo sensitive device? Explain working of L.E.D.
- Q.7 Explain Ultra sonic method of measurement of displacement.

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Roll No.

5th Sem. / I.C/ E.I

Subject : Advance Measurement Techniques

Time : 3 Hrs.

M.M. : 100

SECTION-A

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

- Q.1 a) Resource
b) Define Q
c) Digitizer
d) Instrumentation
e) Measurement
f) Transmitter
g) Light suppression
h) Amplification
i) Interfacing

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- j) Vibratation
- k) Insulator
- l) L.V.D.T.
- m) Modifying Input
- n) Transducer
- o) Photo conductor
- p) Flow
- q) I-Network
- r) Diode

SECTION-B

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

- Q.2
- i) Explain working of photodiode.
 - ii) How the flow can be measured?
 - iii) What is Input configuration of Instrumentation system?
 - iv) What is ultra sonic digitizer?

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- v) What do you meanby light Modulating Technique?
- vi) Write short note on Photo transistor.
- vii) What do you mean of Qualitites involved in vibration measurement.
- viii) Explain any one method to measure Inductance.
- ix) Write applications of Photo voltaic cell.
- x) What is IT Network?
- xi) Write short note on effective resistance.
- xii) Explain Resonance method of High frequency measurement.
- xiii) What is selectivity measurement of radio receiver?
- xiv) What is ultrasonic digitizer?
- xv) Discuss working of LVDT accelerometer in brief.

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