SECTION-C

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

Q.3 What is strain gauge? Explain it's construction and working.

Q.4 How are Transducers classified? Explain in detail.

Q.5 Explain working of synchro Transmitter and receiver.

Q.6 What is differential capacitor pick up? What are it's advantages and disadvantages.

Q.7 Explain construction, selection criteria, application of piezo electric Transducer.

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3rd Sem. / Electronics & Instrumention

Subject : Transducers

Time : 3 Hrs. M.M. : 100

SECTION-A

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

Q.1 a) Transduces.

b) Measurement.

c) Sensor.

d) Differential capacitor Pick up.

e) Thermocouple.

f) Gauge factor.

g) Load cell.

h) Potentiometer.

i) Thermistor.

j) Digital transducer.

k) Hall effect.

l) Primary transducer.

m) RVDT.

n) Analog transducer.

o) LDR.

p) Sersmic pickup.

q) Accelometer.

r) LED.

SECTION-B

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

Q.2 i) What are advantages of electrical Transduces.

ii) Compare active and passive transduces.

iii) Explain working of hot wire anemometer.

iv) What are applications of strain gauge.

v) Explain working of Thermestor in brief.

vi) Explain working of Induction potentiometer.

vii) Draw the neat diagram of LVDT.

viii) What is capacitive pickup.

ix) Explain working of condenser microphone.

x) Explain working of sesimic pick up.

xi) What are applications of ultra sonic transduces.

xii) Discuss working of Hall effect transduces.

xiii) Explain working of Photo transistor.

xiv) What is techogenerator. Explain.

xv) What are applications of digital Transduces.