M 26161

Reg. No. : ....

Name : ....

VII Semester B.Tech. Degree (Reg./Sup./Imp. – Including Part Time) Examination, November 2014
(2007 Admn. Onwards)
PT2K6/2K6 EC 705(E) : INDUSTRIAL ELECTRONICS

Time : 3 Hours   Max. Marks : 100

PART – A

I.   a)   What is a comparator ? What are the different types of comparators ?   5

    b)   Explain electromagnetic pickup type tachometer.   5

    c)   Explain a method for measuring very heavy forces in industries.   5

    d)   Describe force balance type transducer.   5

    e)   Explain area flow meters. Explain different types.   5

    f)   Explain Strain Gauge Load Cell.   5

    g)   Explain optical level indicator.   5

    h)   What is relative humidity ? Explain different types of humidity measuring instruments.   5

                                       (8×5=40)

PART – B

II.   a)   Explain an optical method for measurement of length of a gauge.   15

         OR

    b)   Explain Pendulous integrating Gyro Accelerometer.   15

III.   a)   Explain McLeod method for measurement of low pressure.   15

         OR

    b)   Explain different types of dynamometers for torque measurements.   15

IV. a) Describe ultrasonic flow meters. **15**

OR

b) Explain 'Single Bubbler" method for density measurement. **15**

V. a) Describe Geiger Muller counter for detecting Radioactivity. **15**

OR

b) Explain resistive type level indicator (Liquid Level). **15**

(4×15=60)