Reg. No.	:	•••
Name :		

VII Semester B.Tech. Degree (Reg./Sup./Imp. – Including Part Time) Examination, November 2012 (2007 Admn. Onwards) PT2K6/2K6 EC 705(E): INDUSTRIAL ELECTRONICS

Time: 3 Hours	Max. Marks: 100
I. a) Explain one method for measuring rotational velocity.b) Describe the operation of a seismic accelerometer.	5 5
c) Explain the operation of a Knudsen-Gage.	5
 d) Describe the method of torque measurement using optical phase method. 	e displacement 5
e) Explain the operation of ultrasonic flow meter.	5
f) Describe the air pressure balance method of measuring densi	ty. 5
g) What is scintilation? Explain.	5
h) Explain the operation of a dynamic microphone.	5
•	(8×5=40)
II. a) Write short notes on :	
i) Free Gyro.	10
ii) Gauge blocks. OR	5
b) i) What is stroboscopic effect? Explain.	8
ii) Write short note on :	
Angle Blocks.	7
III. a) Explain, any two methods for measuring force. OR	15
b) Explain the working of :i) Bourdon Tube.ii) Knetometer.	7 8

M 22240

IV.	a)	Explain the working of a turbine flow meter. What are its advantages and drawbacks.	15
		OR	
	b)	Briefly describe any two methods for measuring density of a liquid.	15
V.	a)	Explain, G eiger muller mechanism, for detection and measurement of alpha (α), beta (β) and gamma (γ) rays. OR	15
	b)	Explain two methods for measuring relative hurnidity and compare the methods adopted.	15