Total No. of Printed Pages:2

SUBJECT CODE NO: H-1648 FACULTY OF SCIENCE AND TECHNOLOGY

M.E. (Mechanical)
Engineering Experimental Technique
(REVISED)

[Time: Three Hours]		Hours] [Max.Ma	[Max.Marks:80	
N.B		Please check whether you have got the right question paper. A. Solve <u>any three</u> questions <u>from each section.</u> B. Figure to the right indicate full marks. C. Assume suitable data, if necessary. D. Use of non-programmable calculator is allowed.		
		Section A		
Q.1	a) b)	Explain the concept of generalized measurement systems. Define and explain the basic concept of calibration, standard and dimensions and unit.	05 08	
Q.2	a) b)	Explain with an example, what is system response? Explain the causes and types of experimental error.	05 08	
Q.3	a) b)	What is meant by level of significance; level of confidence? Explain chi – square test.	06 07	
Q.4	Write i. ii. iii. iv.	\$5.77.48,85.50 TOUGUY,"48,95.77 "V.Y.Y.Y.Y.Y.Y.Y.Y.Y.Y.Y.Y.Y.Y.Y.Y.Y.Y.Y	14	
		Section B		
Q.5		What are the practical considerations of seismic instruments? How are elastic elements used for force or torque measurements?	07 06	
Q.6	V 0 3 - 1 4	What are the various methods of sound measurement? Explain any one. Explain the general data acquisition system.	06 07	
Q.7		What do you mean by data transmission? Explain. Explain any two types of strain gauges.	08 05	

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Q.8	Write short notes on (<u>any two</u>)	

- i.
- ii.
- Signal conditioning
 Simple vibration instrument
 The program as substitute for wired logic iii.
- Sound measurement. iv.