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Roll No. Total No. of Pages: 02 Total No. of Questions: 09 B.Tech. (IE, ME) (Sem5 th) MECHANICAL MEASUREMENT AND METROLOGY Subject Code: ME-307			
Time	Paper ID: [A : 3 Hrs.	A0817] Max. Marks: 60	
INST 1. 2.	RUCTIONS TO CANDIDATE: Section-A is compulsory. Attempt any four questions from Section-B. Attempt any two questions from Section-C. SECTION		
Q1.	 Write briefly: a) List two advantages of electronic inst b) Differentiate between accuracy and p c) What do you mean by the order of a r d) What are the random errors in the act e) List the instruments that can be used f) What is the gauge factor of a strain ga g) What is the purpose of a hot wire ane h) What is a total radiation pyrometer? i) What is the working principle of a presented of the principle of	(10x2=20) truments over mechanical instruments. precision. measurement system? t of measurement? for angular measurements. auge? emometer? oving ring? mermometer different than a thermistor.	
Q2.	With the help of an example explain at measurement system.	bout the various functional elements of a	
Q3.	What are the different sources of error in me	asurement? Explain.	
Q4.	Define the terms: Speed of response, lag, dyn	namic error, dead time and dead zone.	

Q5. Explain the working of a sine bar.

Q6. What is temperature compensation in strain gauges. Why is it needed? Explain.

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SECTION-C

(2x10=20)

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- Q7. State the objectives of flow visualization. Explain some of the methods commonly adopted for flow visualization.
- Q8. What is a transducer. Discuss the different types of transducers and state the various quantities which can be measured using them.
- Q9. Write short notes on the following:
 - i) Stroboscope.
 - ii) Ultrasonic flow meter.

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