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**BME-062** 

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P.T.O.

## DIPLOMA IN MECHANICAL ENGINEERING (DME)

## 00506 Term-End Examination December, 2014

## **BME-062: METROLOGY AND INSTRUMENTATION**

Tir	me : 2 hours	Maximum Marks : 70	
No	ote: Answer any ten questions. equal marks.	All questions carry	
1.	Write about types of fit with suita	ble diagrams. 7	
2.	Describe the working of Vernier l with diagram.	pevel protractor	
3.	Define and explain any <i>two</i> or terms:  (a) Sine bar	f the following $2 \times 3 \frac{1}{2} = 7$	
	<ul><li>(b) Optical square</li><li>(c) Transducer</li></ul>		
4.	What are the types of comparator one of them.	rs? Explain any 7	
5.	Write the types of CMM and disthem.	cuss any one of	

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6.	Explain the working of Potentiometer Transducer.	7	
7.	Discuss about optical flat.	7	
8.	Write about the elements of Generalized measurement system.	7	
9.	Classify the plug gauges and explain any one of them.	7	
10.	Briefly explain the errors in the threads.		
11.	Explain the construction of Optical projector.		
12.	Distinguish between Liquid Gas and Bimetallic Thermometer.		
13.	Discuss the unilateral and bilateral tolerances with examples.	7	
14.	Explain the characteristics of piezoelectric materials.	7	