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APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

THIRD SEMESTER B.TECH DEGREE EXAMINATION

Course Code: MR205

Course Name: SCIENCE OF MEASUREMEN

Max. Marks: 100

Duration: 3 Hours

PART A

Answer all questions, each carries 5 marks.

1		Explain any 5 methods of measurement.	5
2		Explain the calculated output correction method for spurious inputs.	5
3		Compare and contrast primary and secondary transducers.	5
4		What is a rota meter? Explain its working	5
5		What is wringing? Explain the procedure	5
6		What are angle gauges? How do they differ from slip gauge?	5
7		What are the types of errors in thread?	5
8		What are the common errors in gear?	5
		PART B	
		Answer any three questions, each carries 10 marks.	
9	a)	Write a note on classification of errors.	5
	b)	With a neat figure, explain generalized measurement system	5
10		Explain the method of inherent insensitivity and signal filtering	10
11		With a neat figure, explain capacitance transducers.	10
12		What is a McLeod gauge used for? Explain the procedure.	10
13		What is a pyrometer? Explain total radiation pyrometer	10
		PART C	
		Answer any two questions, each carries 15 marks.	
14		With a neat figure, explain the working of Tomlinson surface meter.	15
15		Explain Taylor Hobson talysurf instrument with a sketch	15
16		Explain the classification of pitch errors	15
17		Write a note on Two wire method & Three wire method	15

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