SΒ	Roll	No
J.D.	NOII	INU

METROLOGY AND INSTRUMENTATION 6th /Mech/RAC/5319/Nov'15

	Duration: 3 hrs. M.Marks=75	
SECTION-A		
Q1:-	Fill in the blanks: - 1x15=15	
a)	Micrometers are designed on the principles of and	
b)	The sine bar should not be used for checking angle greater thandegree.	
c)	A Feeler gauge is used to check	
d)	The circular scale of micrometer is made on its	
e)	Clinometer is ameasurements instrument.	
f)	An auto-callimetar is an optical device to measuredeflection.	
g)		
h)	Three wire method is used for measuring of screw.	
i)	The techometer is used for measuring	
j)	SQC stands for	
	L.V.D.T. stands for	
	converts one form of energy into Another form.	
	Honing has morelapping.	
	The gauge number variesas the size of wire.	
0)	vernier is used to measure the thickness of gear tooth.	
	SECTION-B	
	Attempt any FIVE questions: - 5x6=30	
	What are slip gauges? How these are used for measurements?	
b.	What are Primary and Secondary textures?	
c.	What is Sine Bar? How it is used to measure angle?	
d.	1	
e.	What are the different gauges used for checking thread angle?	
f.	Explain the working of Linear-Variable Differential Transformer Transducers.	
g.		
	Define TQM? What are its elements?	
i.	Explain the working principle of Micrometer?	
	SECTION-C	
	tempt any THREE questions: - 10x3=30	
a.	Explain Line standards, End Standards, wavelength standards.	
	Explain the working of Peizo-electric Accelerometer and Seismic Accelerometer.	
c.	<u>. </u>	
	Explain the principle, construction and working of Auto-collimator with sketch?	
e.	Explain the construction and working of Tomlinson surface meter for measuring surface roughness?	