SΒ	Roll	No
S.D.	ROII	INO

	METROLOGY AND INSTRUMENTATION			
6 <sup>th</sup> Exam/Mech./RAC/5319/Nov'18				
Duration: 3Hrs.		M.Marks:75		
	SECTION-A			
Q1. Fill in the blanks.		10x1.5=15		
a.	When the line of vision is not directly in line with measuring scale, the error	or is called		
b.	expresses the degree of repeatability of the measuring process.			
C.	The process of making the gauge blocks adhere is known as			
d.	The gauge number varies as the size of the wire.			
e.	An auto-collimator is an optical device used to measure deflection	n.		
f.	The sine bar should not be used for angle more than			
g.	The irregularity of small wavelength is called			
	vernier is used to measure the thickness of gear tooth.			
i.	The tachometer is used measuring			
j.	The C chart is based ondistribution.			
	SECTION-B			
Q2. Attempt any six questions. 6x5=30				
	Write short note on feeler gauge.			
	Explain total quality management in brief.			
	Differentiate between precision and accuracy.			
	Explain linear variable differential transformer.			
٧.				
	What is Flatness? Explain any one method for the measurement of flatness	S.		
	Explain reed type mechanical comparator.			
viii.	What are the various standards of measurement?			
SECTION-C				
	tempt any three questions.	3x10=30		
	Discuss construction and working of auto-collimator.			
b.	What is sine bar? Explain the use of sine bar.			
C.	Explain Taylor Talysurf Surface roughness tester.			
d.	Describe slip gauges in detail.			

e. Explain micrometer with a neat sketch.