QP Code: 31100

	(3 Hours)	[Total Marks :	80
N.B. :	 Question No. 1 is compulsory. Attempt any three questions out of remaining five questions. Figures to the right indicate full marks. Assume suitable data, if required. 	C	
(a (b (c	State and explain Taylor's principle of guage design. What are the objectives of quality control.	nes.	20
2. (a) (b)	Explain three wire method used in screw measurement. Explain P and np chart with their application.	8	10 10
3. (a)	Explain the principle of Electrical comparator. State its aclimitations.	lvantages and	10
(b)	Explain the construction and working of any one surface measur	ing instrument.	10
4. (a)	What is OC curve? Explain the term consumer Risk, AQL respect to it.	and RQL with	10
(b)	How will you compromise between Quality and cost. Explain example.	with suitable	10
5. (a)	object - Weight required = 500 grams Tolerance = ± 3 grams Process study details 20 samples of size 5	eight of certain	10
	$\sum \overline{X} = 9960$ $\sum R = 100$	5 × 5	
954	Draw control chart and comment on process capability.	2	
	(for sub group size of 5 , $A_2 = 0.58$ $D_4 = 2.11$	ef.	
1	$D_{i} = 0$	7	10
(b)	How is gear measurement carried out using Parkinson's Teste		

- 6. Write short notes on : (any four)
 - (a) Gantt Chart
 - (b) Laser interferrometer
 - (c) 3D CMM
 - (d) Tool maker microscope
 - (e) Elements of surface texture

20

FW-Con. 10273-16.