

Total Marks: 80

Duration: 3 Hours

N.B.:-

1. Question No.1 is compulsory
2. Solve any three out of remaining questions
3. Assume suitable data if required and mention it clearly
4. Figures to right indicate full marks

Q1	A] How will maintain compromise between quality and cost? B] Differentiate between primary and tertiary standards? C] Explain concept of flatness. D] Explain importance of surface conditions	5 5 5 5
Q2	A] Explain construction and working of any one mechanical comparator B] Explain following terms with respect to limit, fit and tolerances:- 1) Upper deviation 2) Lower deviation 3) Fundamental Deviation 4) Tolerance grades 5) Clearance Fit	10 10
Q3	A] Explain Taylor Hobson surface roughness measuring instrument in detail B] Explain different quality costs	10 10
Q4	A] Explain Principle, Construction and working of Parkinson's Gear tester. B] Explain following:- 1. Pie Charts 2. Bar Charts 3. Scatter Diagrams	10 10
Q5	A] Explain three wire method used in screw thread measurement. B] Explain following:- 1. R -Chart 2. P-Charts 3. np charts 4. X bar charts	10 10
Q6	A] Explain construction and working of Tool Maker's Microscope B] Sketch OC curve and explain various elements of it. Also explain double sampling plans	10 10