Q.P. Code: 39028

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]	Explain surface roughness symbols in brief.	5
	B]	Explain concept of flatness with suitable example.	5
	C]	Differentiate between precision and accuracy.	5
	D]	Write short note on-Planning for quality	5

Q2	A]	Explain Taylors Principle of Gauge design with suitable examples	10
	B]	Explain construction and working of laser interferometer in detail	10

Q3　A]　Explain following parameters with respect to surface roughness measurement:-　　10
1) R_a Value
2) R_z Value
3) R_y Value
4) RMS value

B]　Explain different types of quality costs in detail. How will you maintain compromise between quality and cost?　　10

Q4　A]　Explain following:-　　10
1) GANT charts
2) Pareto Chart

B]　Explain three wire method used in screw thread measurements　　10

Q5	A]	Explain construction, working and applications of 3D coordinate measuring machine	10
	B]	"Statistically Controlled Process is always a capable process". Do you agree with above statement? Justify your agreement or disagreement in detail.	10

Q6	A]	Explain construction, working Parkinson's tester used in gear measurement.	10
	B]	Explain Single sampling and double sampling plans in detail	10

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