

INSPECTION AND QUALITY CONTROL

(Theory – 5)

Full Marks : 80

Time : 3 hours

Answer any five questions

Figures in the right-hand margin indicate marks

- 1. (a) What do you mean by interchangeability ? 2
- (b) Explain international, national and company standards. 6
- (c) What is limits, fits and tolerances ? Explain Indian standards on limits, fits and tolerances. 8
- 2. (a) Define positional tolerances. 2
- (b) Explain the factors influencing the quality of manufacture. 6

- (c) Describe Inspection. Explain various types of inspections. 8
- 3. (a) What is the use of calipers ? 2
- (b) Explain basic principle used in measurement and gauging. http://www.sctevtonline.com 6
- (c) Describe the working of micrometer, dial indicator, surface plate and try square with suitable sketches. 8
- 4. (a) What is slip gauges ? 2
- (b) Explain the measurement of thread and gear. What are geometrical parameter and errors ? 6
- (c) Describe the procedure for alignment test of lathes, drilling and milling machines. 8
- 5. (a) Define mode in statistics. 2
- (b) Explain standard deviation, normal distribution, binomial and Poisson distribution. 6
- (c) Describe various control charts with their applications. 8

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(Turn Over)

(3)

6. (a) What do you mean by sample size ? 2
- (b) Explain the concept of total quality management (TQM). 6
- (c) Describe method of taking sample, frequency of sample, inspection plan format and test report. 8
7. (a) What is ISO-9000 ? 2
- (b) Explain the measurement of displacement, vibration and frequency. 6
- (c) Explain the measurement of pressure, temperature, humidity by electromechanical transducers of resistance, capacitance and inductance type. 8

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