

M.E. Second Semester (Production Tech. & Mgt.) (P.T.) (CBS)
13535 : Productivity and Quality Management : 2 SPTM 2

P. Pages : 2

Time : Three Hours



AU - 3245

Max. Marks : 80

- Notes :
1. All question carry marks as indicated.
 2. Answer **three** question from Section A and **three** question from Section B.
 3. Due credit will be given to neatness and adequate dimensions.
 4. Illustrate your answer necessary with the help of neat sketches.
 5. Use of pen Blue/Black ink/refill only for writing the answer book.

SECTION - A

1. a) Determine the dimensions and tolerances of shaft and hole having size of 30 H₇/h₈ fit. Also determine the allowance (i.e. minimum clearance) and maximum clearance. 7
b) Explain Taylor's principle as applied to limit gauging. Why can't this be followed always in practice? 7
2. a) State the possible causes of each of the various types of irregularities found in surface texture. Show how surfaces having the same numerical assessment may have different properties & textures. 7
b) Describe a gear tooth-vernier caliper and show how this is used for checking gears. 6
3. a) Explain how a thread caliper gauge serves the purpose of checking the screw thread in shop production. 7
b) What is meant by roughness and waviness of machined surfaces? 6
4. a) Describe briefly about tactile sensors in robotic application. 6
b) Why geometric tolerancing is necessary? How the geometric tolerances specified on drawing? 7
5. a) Describe with sketches the working principles & the applications of 'Gear Tester'. 7
b) Describe the feature of flexible inspection system (FIS). 6

SECTION - B

6. a) Explain how TQM is different from the traditional notions of quality. Also, explain the differences between traditional organizations & those that have implemented TQM. 7
b) Is an ISO 9000 certification a guarantee for the firm's product quality? Explain your answer. 7
7. a) What is parameter design and tolerance design in Taguchi system? 7
b) Discuss 5 'S' principle of housekeeping. 6

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| 8. | a) | How is Deming's PDCA cycle useful in services? Discuss. | 7 |
| | b) | What is TPM? How it is implemented? | 6 |
| 9. | a) | What are the various types of Kanban. Explain any one in detail. | 7 |
| | b) | What is SMED? How it is implemented. | 6 |
| 10. | a) | What are the difficulties in measuring productivity? Discuss. | 6 |
| | b) | Managing through Kaizen result in improvement by zero investment? Discuss. | 7 |

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