

CBCS SCHEME

Srinivas Institute of Technology
Library, Mangalore

USN

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22MAR13

First Semester M.Tech. Degree Examination, Jan./Feb. 2023 Agile Manufacturing

Time: 3 hrs.

Max. Marks: 100

Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.
2. M : Marks , L: Bloom's level , C: Course outcomes.

| Module – 1 | | | M | L | C |
|------------|----|---------------------------------------------------------------------------------------|----|----|-----|
| Q.1 | a. | Define agile manufacturing. And explain business need for agile manufacturing. | 10 | L1 | CO1 |
| | b. | Explain the characteristics and generic features of agile manufacturing. | 10 | L1 | CO1 |
| OR | | | | | |
| Q.2 | a. | Explain the strategy driven approach integrating organization. | 10 | L1 | CO1 |
| | b. | Explain the interdisciplinary design methodology. | 10 | L1 | CO1 |
| Module – 2 | | | | | |
| Q.3 | a. | Write a short note on concepts of basic manufacturing theory-joint technical design. | 10 | L2 | CO2 |
| | b. | Explain the main issues in developing agile manufacturing. | 10 | L2 | CO2 |
| OR | | | | | |
| Q.4 | a. | Explain the approaches to enhance ability in manufacturing. | 10 | L1 | CO1 |
| | b. | Write a short note on role of QFD. | 10 | L1 | CO1 |
| Module – 3 | | | | | |
| Q.5 | a. | Explain the applications of IT concepts in agile manufacturing. | 10 | L2 | CO2 |
| | b. | Mention the strategies for agile manufacturing. | 10 | L2 | CO2 |
| OR | | | | | |
| Q.6 | a. | Write a short note on applications of multimedia to improve agility in manufacturing. | 10 | L1 | CO1 |
| | b. | Explain the system concepts on application in agile manufacturing. | 10 | L1 | CO1 |
| Module – 4 | | | | | |
| Q.7 | a. | Mention the principles of agile supply chain management. | 10 | L2 | CO2 |
| | b. | Brief the IT concepts in supply chain management. | 10 | L2 | CO2 |

| OR | | | | | |
|------------|----|------------------------------------------------------------------------------------|----|----|-----|
| Q.8 | a. | Explain the integration and management in agile manufacturing. | 10 | L2 | CO2 |
| | b. | Write the short note on agility and adaptability in agile supply chain management. | 10 | L2 | CO3 |
| Module - 5 | | | | | |
| Q.9 | a. | Explain the concept of enhancing technology for machine tool system. | 10 | L2 | CO3 |
| | b. | Write briefly about design requirement geometry. | 10 | L2 | CO3 |
| OR | | | | | |
| Q.10 | a. | Explain the selection procedure of cutting parameters. | 10 | L2 | CO4 |
| | b. | Explain the parametric approach on design. | 10 | L2 | CO4 |
