"Sem-IV / Manufacturing Engg-II / PROD /4-12-15

QP Code: 5395

| Duration: | 2 | 1 |
|-----------|---|-------|
| Duration: | • | nours |

| | | Bulation: 3 hours | |
|------|-----|---|-------|
| | | Max. Ma | ks: 8 |
| N.B. | (1) | Question No. ONE is compulsory. | |
| | (2) | Attempt any THREE Questions from remaining FIVE questions. | |
| | (3) | Support your answer with sketch wherever necessary. | |
| | (4) | All questions carry equal marks. | |
| Q.1. | | Explain in brief:- | 20 |
| | (a) | Resin transfer molding process of composite manufacturing. | |
| | (b) | Chemical Machining. | |
| | (c) | Thread chasers and self-opening die heads. | |
| | (d) | Gear shaping process. | |
| Q2. | (a) | Explain the process of Plasma arc Machining with its advantages, limitations and applications. | 10 |
| | (b) | Explain the composite manufacturing processes of Pultrusion and Filament winding. | 10 |
| Q3. | (a) | Explain the principle of centerless grinding and what are the advantages of this method over other systems? | 10 |
| | (b) | Briefly explain the process of thread whirling with its advantages, limitations and applications. | 10 |
| Q4. | (a) | How automats are classified? Differentiate between parallel action and progressive action multi spingle automats. | 10 |
| | (b) | Write a short note on cylindrical grinding machine. Also explain the I-S marking system for a grinding whool? | 10 |
| Q5. | (a) | Explain with a neat sketch LBM. | 10 |
| | (b) | Explain about chutes, magazines and hoppers used for feeding in automatic machines. | 10 |
| Q6. | (a) | Describe in detail the processes of Lapping and Roller Burnishing. | 10 |
| | (b) | What is gear hobbing? With neat sketches, explain the principles of gear hobbing. | 10 |

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