

Total No. of Printed Pages:2

SUBJECT CODE NO:- H-1628
FACULTY OF ENGINEERING AND TECHNOLOGY
M.E. (Mechanical)
Advanced Manufacturing Techniques
(REVISED)

[Time: Three Hours]

[Max.Marks:80]

N.B Please check whether you have got the right question paper.
 i) Q.No.1 from Sec-A and Q. No.5 From Sec. B are compulsory.
 ii) Solve any Two questions from Q. No.2 to Q. No.4 in Sec-A and any Two questions From Q. No.6 To Q. No.8 in Sec- B

Section -A

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|-----|---|----|
| Q.1 | Solve any Three questions of the Following. | 18 |
| | a) Explain Plaster Mould Casting. | |
| | b) Discuss Casting Process Planning. | |
| | c) Enlist application of Polishing and explain in Detail. | |
| | d) Comment on Tool Life and Tool Temperature. | |
| Q.2 | a) Discuss in Detail uniformity in casting and Moulding process. | 06 |
| | b) What do you understand by Web based collaboration. | 05 |
| Q.3 | (a) What are the Guidelines for Improving the casting Design. | 06 |
| | (b) Suggest suitable Methods for Controlling Tool Temperature during metal cutting process. | 05 |
| Q.4 | a) Give application of Buffing process and Explain in Detail | 06 |
| | b) Explain in Detail various Types of Chip Breakers. | 05 |

Section B

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|-----|---|----|
| Q.5 | Solve Any Three questions | 18 |
| | (a) Enlist specific Applications of Water Jet Machining process and Explain with Neat sketch. | |
| | (b) What are the Application, Advantages and Drawbacks of Magneto Abrasive Finishing process. | |
| | (c) With specific example explain in detail compression molding process. | |
| | (d) Explain Injection molding in detail and and Discuss the Application. | |
| Q.6 | (a) Enlist the components manufactured by Electro Stream Drilling and explain in Detail. | 06 |
| | (b) Explain Thermal Spray coating with Neat Sketch. | 05 |

- Q.7 (a) List down the components subjected to Chemical Vapour Deposition and state its Importance. 06
- (b) What do you mean by Roto molding explain Detail. 05
- Q.8 (a) What are the Application, Advantages and Limitations of Thermoforming. 06
- (b) Suggest a suitable process for Micro drilling of holes in Thin sheets, Explain in Detail 05