H-1628

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

[Time: Three Hours] **[Max.Marks:80]**

Please check whether you have got the right question paper.

N.B 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 any Two questions from Q. No.6 to Q.No.8 in Sec- B.

Section A

Q.1 Solve any three question of the following 18

a. Explain Evaporative Casting.
b. With Neat Sketch explain sheet Moulding Casting V process.
c. Give the significance of Deburring process.
d. What do you mean by Tool condition Monitoring State its importance.

Q.2 a) Explain in Detail Casting Cost Estimation. 06
b) What do you mean by Web based collaboration. 05

Q.3 a) Explain in Detail Rapid Tooling Development. 06
b) During Machining which Input parameter have significant effect on Tool Wear explain in Detail. 05

Q.4 a) Give Specific Application of Buffing and explain in Detail. 06
b) What is Chip Breaker? Discuss various Types of Chip Breakers 05

Section –B

Q.5 Solve any three question of the following 18

a) With Neat Sketch Explain Abrasive Jet Machining and Enlist Specific Application.

b) Suggest on suitable Application for the use of Magneto abrasive Finishing process and Discuss in Detail.

c) Which type of products obtained by compression Molding process. Explain in detail.

d) What are the Application, Advantages and Limitations of Injection Molding.

Q.6	a)	Enlist the components Manufactured by Electro stream Drilling and explain in Detail.	06
	b)	Discuss in Detail the process parameters involved in Thermal Spray Coating	05
Q.7	a)	With specific example explain the Chemical Vapour Deposition process.	06
	b)	With Neat Sketch explain Roto Molding.	05
Q.8	a)	Explain Thermo Forming Process in Detail.	06
	b)	Which Manufacturing process will be used for Micro Drilling of Holes in Thin Sheets Discuss with example.	05