

Seat No. **OCT-NOV 2025 WINTER EXAMINATION****1154 B.Tech. CBCS****Sub. Name: Machines Tools and Processes****Sub. Code: 63364/79123/79411****Day and Date: Friday ,05-12-2025****Total Marks: 70****Time: 10:30 AM To 01:00 PM**

Instructions: 1. All questions are compulsory
 2. Assume suitable data wherever necessary and mention it boldly
 3. Figures to the right indicate full marks

- Q1) Q.1 Solve any Two [12]**
 a) What are the steps involved in sand casting process? State its advantages and limitations.
 b) Explain Centrifugal casting process and state its applications.
 c) Explain with neat sketch a suitable furnace used for melting of nonferrous-metals.
- Q2) Q.2 Solve any Two [12]**
 a) Distinguish between open and closed die forging processes.
 b) Why is the strength of rolled part is better than a cast piece.
 c) Compare hot working and cold working.
- Q3) Q.3 Solve any Two [12]**
 a) Write a short note on Blow molding.
 b) Explain with neat sketch Calendaring process for plastic.
 c) Explain various applications of Thermoplastic materials.
- Q4) Q.4 Solve any Two [12]**
 a) Draw block diagram of Radial drilling machine and explain its working.
 b) Where would you propose use of face plate on a lathe? Justify your answer.
 c) Compare center lathe with capstan and turret lathes.
- Q5) Q.5 Solve any Two [12]**
 a) Compare planer and shaper machine.

- b) List the different types of milling cutters and explain any three types of milling cutters with neat sketch.
- c) Describe gear cutting on milling machine.

Q6) Q.6 Solve any Two

[10]

- a) Write a note on Water jet machining
- b) Write applications of Electro -chemical machining.
- c) Discuss Electrical Discharge machining advantages and limitations.

End Of Question Paper

Important Note for Chief Exam Officer / SRPD Coordinator / Sr Supervisor/ Student -
This Question Paper may be distributed for following Subjects as common code.
सदरची प्रश्नपत्रिका खालील विषयांकरिता वितरित करता येईल.

- 1] (101) Bachelor of Engineering (79411) Machines Tools and Processes Part 2 SEM 4
- 2] (101) Bachelor of Engineering (63364) Machine Tools And Processes Part 2 SEM 4
- 3] (1154) B.Tech. CBCS (79123) Machines Tools and Processes Part 2 SEM 4