

Please check that this question paper contains _____ questions and _____ printed pages within first ten minutes.

[Total No. of Questions: 09]

[Total No. of Pages:]

Uni. Roll No.

Program: B.Tech. (Batch 2018 onward)

Semester: 3rd

Name of Subject: Manufacturing Processes

Subject Code: PCME-103

Paper ID: 16074

MORNING

11 MAY 2023

Time Allowed: 03 Hours

Max. Marks: 60

NOTE:

- 1) Parts A and B are compulsory
- 2) Part-C has Two Questions Q8 and Q9. Both are compulsory, but with internal choice
- 3) Any missing data may be assumed appropriately

Part – A

[Marks: 02 each]

Q1.

- a) What do you mean by Pattern Allowance?
- b) Discuss wire drawing process.
- c) Explain Resistance welding.
- d) Define machinability.
- e) What is the purpose of the core print?
- f) Distinguish between hot working and cold working process.

Part – B

[Marks: 04 each]

Q2. Discuss various types of moulding process.

Q3. Explain sheet metal forming operations.

Q4. Discuss various forging defects along with their causes and remedies.

Q5. Differentiate TIG and MIG welding process.

Q6. Write the various types of chips produced during metal machining. Why are discontinuous type chips preferred over continuous type?

Q7. Sketch and describe a horizontal milling machine.

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Part – C

[Marks: 12 each]

Q8. How solidification processes occur in casting? Discuss Directional solidification in casting.

OR

Explain the rolling process. Classify the rolling mills, discuss in brief

Q9. Why coating of electrode is necessary? Explain four main types of coating used in arc welding.

OR

Explain the various elements of a single point cutting tool, with the help of a neat sketch.
