

B.Tech. SEM -IV Mechanical 2014 Course (CBCS) : SUMMER - 2019
SUBJECT: MANUFACTURING PROCESS

Day: Saturday
Date: 25/05/2019

S-2019-2623

Time: 10.00 AM TO 01.00 PM
Max. Marks: 60

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.

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- Q.1 a)** How the pattern is useful in sand casting? (04)
b) What are the different types of pattern materials used in pattern making? State advantages, disadvantages of each. (06)

OR

- Q.1 a)** What are the different types of dies used in die casting? (05)
b) Explain true centrifugal casting with neat sketch. (05)

- Q.2** What are the different types of Hot working process? Explain any one with suitable sketch. (10)

OR

- Q.2 a)** Differentiate forging and casting. (05)
b) Compare Hot working and Cold working. (05)

- Q.3 a)** Explain submerged Arc welding with neat sketch. (05)
b) Describe working principle of stud arc welding processes? State its applications. (05)

OR

- Q.3 a)** What are the different types of Resistance welding processes? Explain spot welding with suitable sketches. (05)
b) What do you mean by surface preparation in welding? (05)

- Q.4** What are different parts of Lathe machine? State its function. (10)

OR

- Q.4** Explain single point cutting tool geometry with neat sketches. (10)

- Q.5** Describe the working of sensitive drilling machine with neat sketch. (10)

OR

- Q.5** What are the different types of milling machines? Explain any one in detail with neat sketch. (10)

- Q.6** What are the different types of Grinding machines? Explain any one with neat sketch. (10)

OR

- Q.6** Describe the working of plain cylindrical grinder with schematic diagram. (10)

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