

Total No. of Questions : 4]

SEAT No. :

P5430

[Total No. of Pages : 1

[6186]-558

**S.E. (Robotics and Automation) (Insem)
MANUFACTURING TECHNOLOGY
(2019 Pattern) (Semester - III) (211502)**

Time : 1 Hour]

[Max. Marks : 30

Instructions to the candidates:

- 1) *Attempt Q.1 or Q.2 and Q.3 or Q.4.*
- 2) *Neat diagrams must be drawn wherever necessary.*
- 3) *Assume suitable data, if necessary.*

- Q1)** a) Describe the steps to make mold cavity in sand casting with neat sketch. [8]
b) Describe the procedure to determine permeability of a sand with neat sketch. [7]

OR

- Q2)** a) Describe any two special casting process (other than the sand casting) with neat sketch. [10]
b) Describe the procedure to determine Moisture content test of a sand with neat sketch. [5]

- Q3)** a) Describe and compare between Hot forging and Cold forging. [5]
b) State the advantages of forging process over sand casting process. [5]
c) Describe Four high rolling mill with neat sketch. [5]

OR

- Q4)** a) Describe and compare between Hot forming and Cold forming. [5]
b) Describe board drop hammer with neat sketch. [5]
c) Describe planetary rolling mill with neat sketch. [5]

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