Total No. of Questions : 4]

## **PC-436**

## [Total No. of Pages : 1 [6359]-557 S.E. (Robotics & Automation) (Insem) MANUFACTURING TECHNOLOGY (2019 Pattern) (Semester - III) (211502)

*Time : 1 Hour]* 

[Max. Marks : 30

**SEAT No. :** 

Instructions to the candidates:

- Answer Q1 or Q2 and Q3 or Q4. 1)
- Neat diagrams must be drawn wherever necessary. 2)
- Assume suitable data, if necessary. 3)

*Q1*) a) Describe various types of allowances considered while designing pattern.

- Describe the procedure to determine permeability of a sand with neat b) sketch. [7]
- Describe any two special casting processes (Other than sand casting *Q2*) a) process) with neat sketch.
  - Describe the procedure to determine Grain Fineness Number of a sand b) with neat sketch. 9771

Describe and compare between Hot forging and Cold forging. [5] **Q3**) a)

Describe and compare between Open die forging and Closed die forming b) with neat sketch. [5]

Describe Four high rolling mill with neat sketc [5] c)

## OR

- Describe and compare between Hot forming and Cold forming. **Q4**) a) [5]
  - Describe double acting steam hammer with neat sketch. b) [5]
  - c) Describe Three high rolling mill with neat sketch.

[8]

[5]