

BT-I/D-16

8116

MANUFACTURING TECHNOLOGY AND PROCESSES

Paper : ME-101N

Group (i)

Time : Three Hours]

[Maximum Marks : 75

Note : Attempt five questions in all. Select at least one question from each unit.

UNIT-I

1. (a) Explain the term 'manufacturing'. Give a brief classification of manufacturing processes and their applications.
(b) What is an 'Accident'? Discuss causes and common sources of accidents in industries. 15
2. Give general properties, applications and the difference between the following engineering materials:
(a) Mild steel.
(b) Medium carbon steel.
(c) High carbon steel.
(d) Cast iron. 15

UNIT-II

3. What is Pattern? What are pattern allowances? Why various allowances are necessary for pattern making? 15

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[P.T.O.]

4. (a) With the help of neat diagram, describe the operation of a cupola furnace for melting cast iron. What is the use of adding fluxes to the charge? 8
(b) State the various defects which may occur in sand castings and also mention their main causes and remedies. 7

UNIT-III

5. Explain the difference between cold working and hot working processes. Also discuss advantages and limitations of each. 15
6. Explain and give advantages and applications of the following processes: <http://www.kuonline.in>
(a) Rolling.
(b) Wire drawing. 15

UNIT-IV

7. (a) Draw a single point cutting tool. Show different angles on it. 5
(b) Discuss the mechanics of chip formation. Name different types of chip formed during machining. 5
(c) Discuss the difference between shaper, planer and milling machines. 5

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8. Explain the following Arc welding process with neat sketches :

- (a) TIG welding.
- (b) MIG welding.
- (c) Metal Arc welding.

15

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