

SE / III / PROD / M-E I / CBGS / 30.05.16
QP Code : 30696

Manufacturing Engg - I



Duration: - 03 Hours

Total marks assigned to the paper: - 80

N.B.:- (1) Question No. 1 is compulsory.

(2) Attempt any three questions out of remaining five questions.

(3) Figures to the right indicate full marks.

(4) Illustrate answers with proper justification and neat sketches wherever required.

(5) Answers to questions should be grouped and written together.

1. Explain in brief with the help of neat sketch: (Any Four) (5 X4)
- (A) Types of shapers.
 - (B) Special accessories for milling.
 - (C) Broaching process.
 - (D) Classification and Nomenclature of twist drill.
 - (E) Machining time in turning.
2. (A) Explain any ten operations performed on the lathe with neat sketch. (10)
- (B) Name different types of drilling machines. Explain upright drilling M/C. (10)
3. (A) Describe the principle of quick return mechanism as used in shapers. How you can adjust the length of stroke in a shaper? Explain. (10)
- (B) Name different broaching machines. Explain vertical broaching with neat sketch. (10)
4. Explain in brief with the help of neat sketch: (Any Four) (5 X4)
- (A) Horizontal boring machine.
 - (B) Types of planning machines.
 - (C) Transfer moulding with plastics.
 - (D) Feed mechanism related to lathe.
 - (E) Face and shell Milling cutters.

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5. (A) State indexing methods. Explain any one in details with neat sketch. (10)
(B) Explain basic concepts related to rotational molding. (10)
6. Write short notes on: (Any Four) (5 X 4)
(A) Friction saws cutting off machines.
(B) Thermoforming and extrusion related to plastics.
(C) Moulding with ceramics.
(D) Slotting machine.
(E) Machining time in drilling.

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