



C14-M-407

4483

BOARD DIPLOMA EXAMINATION, (C-14)
SEPTEMBER/OCTOBER - 2020
DME—FOURTH SEMESTER EXAMINATION
PRODUCTION DRAWING

Time : 3 hours]

[Total Marks : 60

PART—A

5×4=20

- Instructions :** (1) Answer **all** questions.
(2) Each question carries **five** marks.
(3) Draw the following neatly with proportionate dimensions.
(4) Use of production drawing tables is allowed.

1. The dimensions of a shaft and a hole are given below :

0 002 0 0012
0 001 0 0010

Shaft : 50 Hole : 50

Find maximum allowance and hole tolerance.

2. Draw the tolerance character symbols for the following :

- (a) Angularity
(b) Run out
(c) Profile of any surface
(d) Flatness
(e) Straightness

* **3.** Mention the roughness grade symbols for the following roughness values :

- (a) 50 μ m
- (b) 25 μ m
- (c) 1.6 μ m
- (d) 0.4 μ m
- (e) 0.05 μ m

4. Write the meanings of following symbols/specifications :

- (a) Fe 510B
- (b) 30 C5 B0
- (c) Hex bolt M 30 1.0 100 ISI36454.6
- (d) O-ring 10/2.5, VITON
- (e) Bearing no. 305

PART—B

40

Instructions : (1) Answer *any one* question.
(2) Each question carries **forty** marks.

* **5.** Study the given assembly drawing of the tool post shown in Fig. 1 :

- (a) Draw the part drawings for pillar, block and screw. 20
- (b) Select suitable fits and tolerances. 4

- * (c) Prepare the process sheet. 7
- (d) Indicate the surface roughness symbols and geometrical tolerance symbols. 6
- (e) List out the materials and quantity of the components. 3

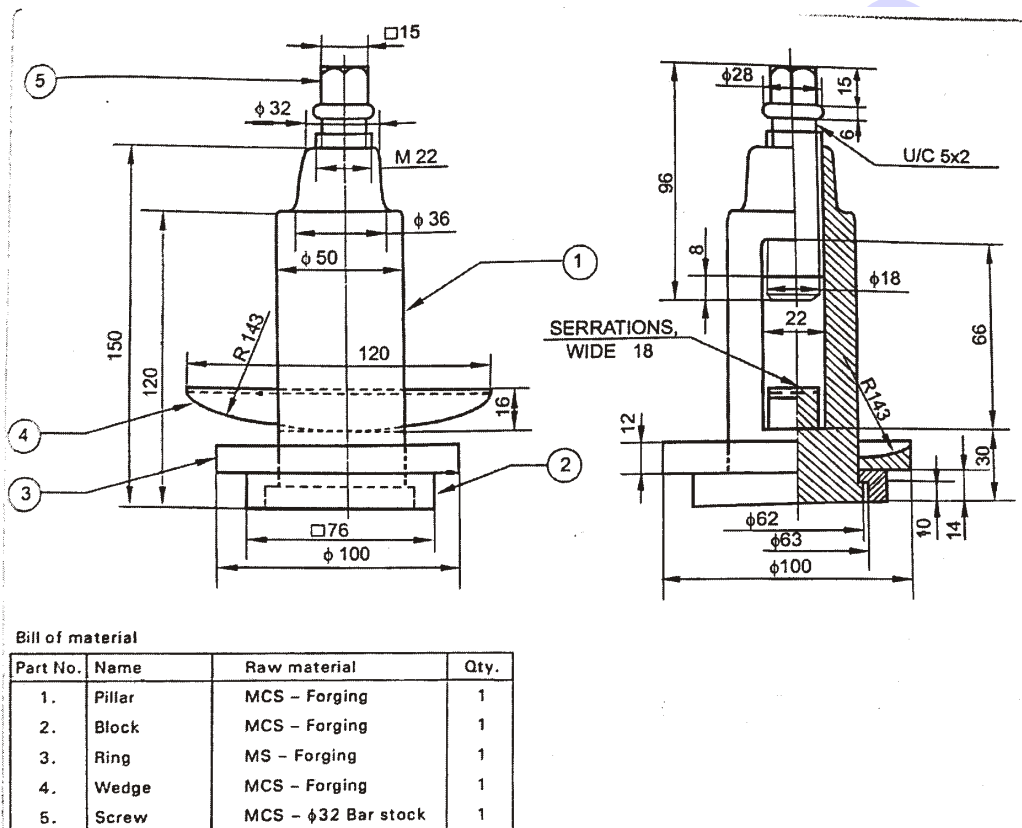


Fig. 1

