



C16-M-406

6451

BOARD DIPLOMA EXAMINATION, (C-16)
AUGUST/SEPTEMBER—2021
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. Calculate the values of clearance/interference, hole tolerance and shaft tolerance for the H7/g6 with a basic size of 40 mm and tolerances indicated.
2. Draw the tolerance character symbol for the following :
 - (a) Perpendicularity
 - (b) Cylindricity
 - (c) Profile of any line
 - (d) Position
 - (e) Concentricity

3. Write the surface roughness value for the following :

- (a) Hot rolling
- (b) Filling
- (c) Honing
- (d) Sand casting
- (e) Drilling

4. Write the meaning of following symbols/specifications :

- (a) Fe 410 Q1
- (b) 80T11/6451
- (c) Oil seal A 25 × 40 × 7, IS : 5129
- (d) O—Ring, 10/2·5, Viton
- (e) Bearing number 205

PART—B

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

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5. Study the given assembly drawing of the stuffing box shown in Figure 1 :

- (a) Draw the part drawings for body and gland. 20
- (b) Select suitable fits and tolerances. 4

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

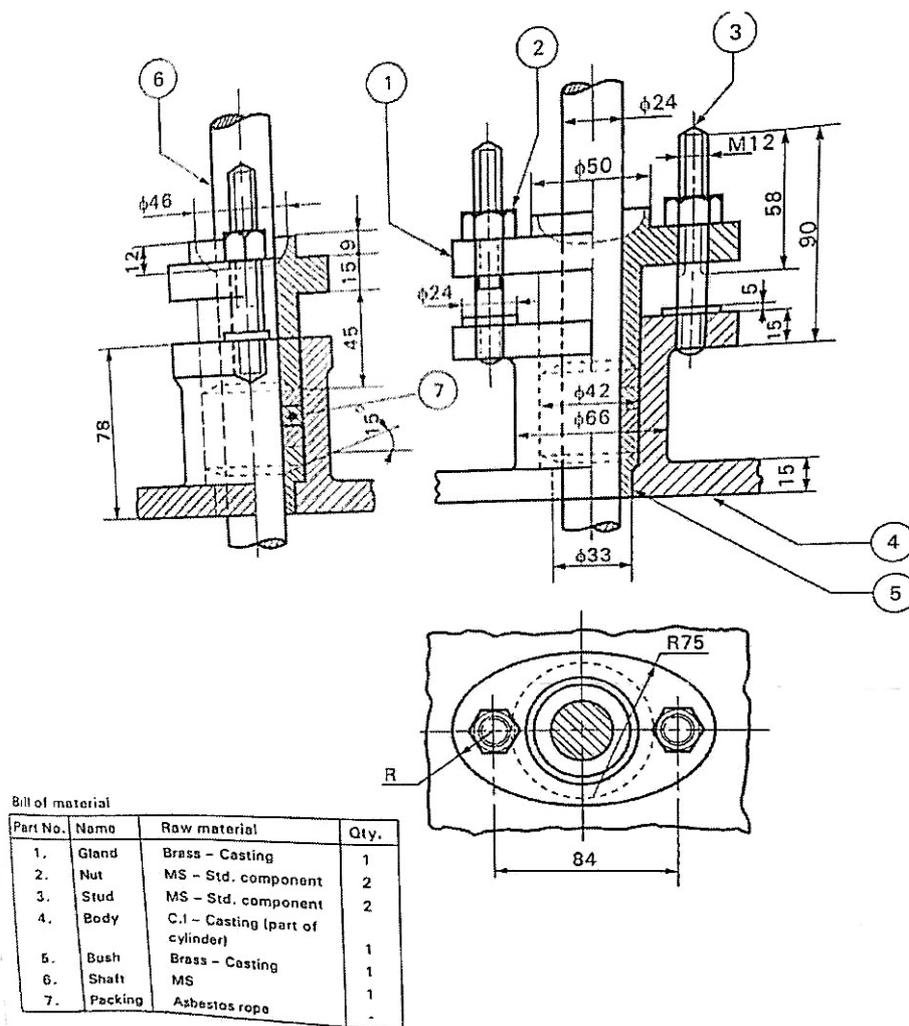


Figure - 1

6. Study the given assembly drawing of the universal coupling shown in Figure 2 :

- | | | |
|-----|---|----|
| (a) | Draw the part drawings for fork and centre block. | 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 |

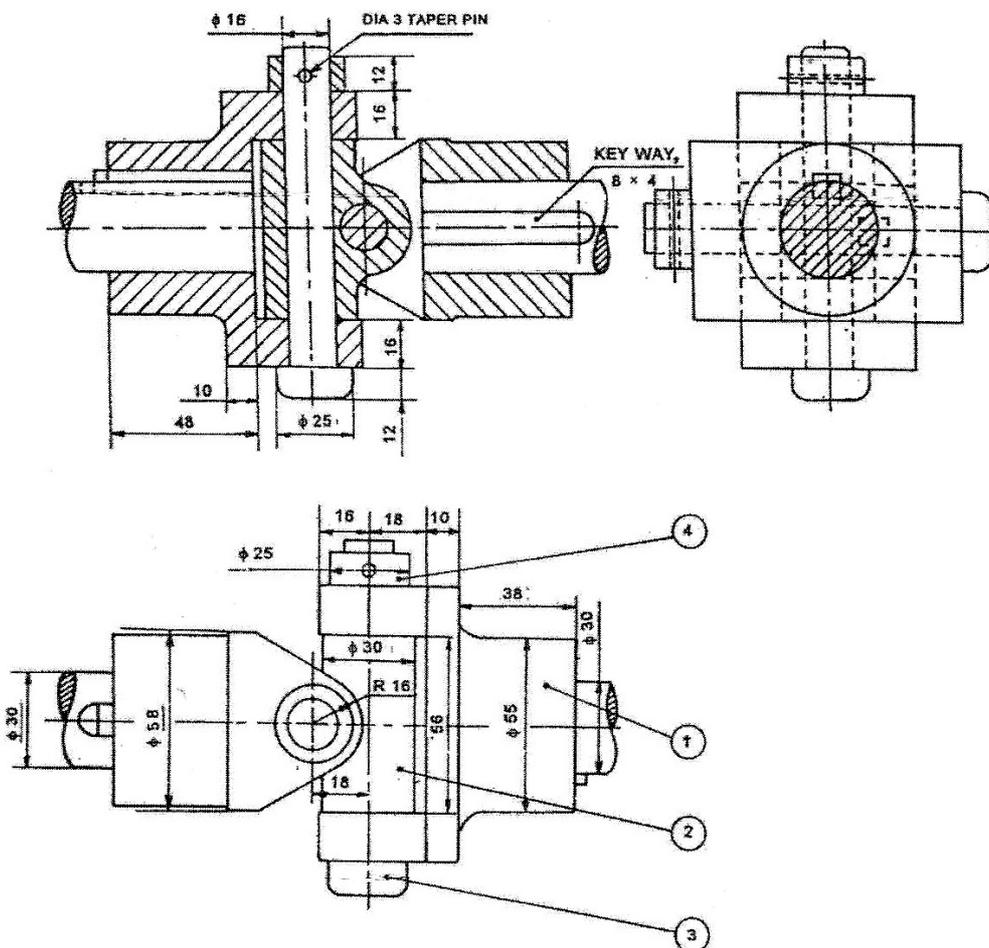


Figure - 2

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