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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

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1

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- **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.
- **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

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

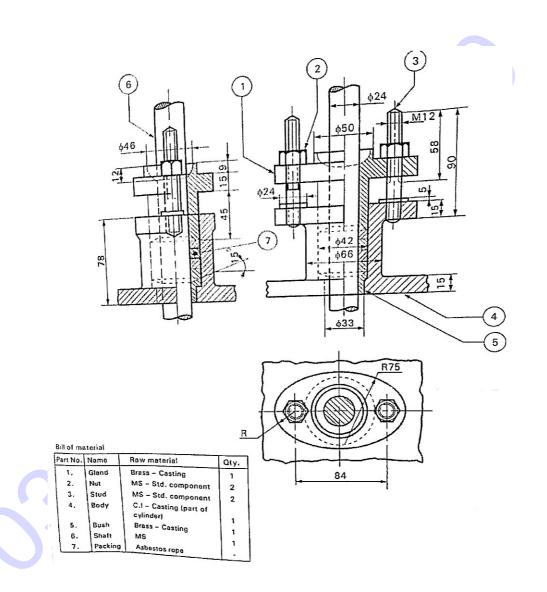
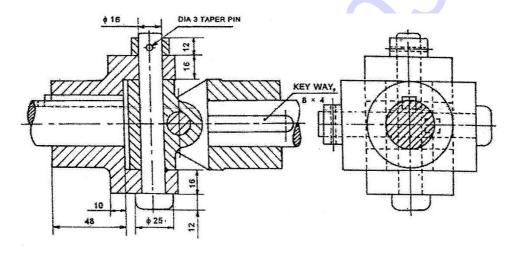


Figure – 1

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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



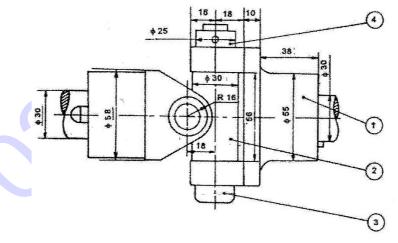


Figure – 2

4