C16–M–**406**

6451

BOARD DIPLOMA EXAMINATION, (C16)
OCT/NOV—2018
DME—FOURTH SEMESTER EXAMINATION

PRODUCTION DRAWING

Time : 3 hours]   [*Total Marks* : 60

PART—A   4×5=20

Instructions : (1) Answer **all** questions.

(2) Each question carries **five** marks.

(3) Use of production drawing tables is allowed.

1. Calculate the values of the maximum and minimum limits for both shaft and hold 40 G7/h6, using the tables for tolerances and indicate the type of fit obtained.

2. Draw the tolerance character symbols for the (a) Angularity, (b) Straightness, (c) Profile of any surface, (d) Cylindrycity (e) Run-out

3. Write roughness values for the following symbols

(a) △   (b) ▽▽   (c) ▽▽▽   (d) ▽▽▽▽   (e) ◡

4. Write the meaning of following symbols/specifications

   (a) Fe 410Q1

   (b) 80T11

(c) Oil seal A 25×40×7, IS:5129

(d) O—Ring, 10/2.5, viton

(e) Bearing number 205

PART—B

20×2=40

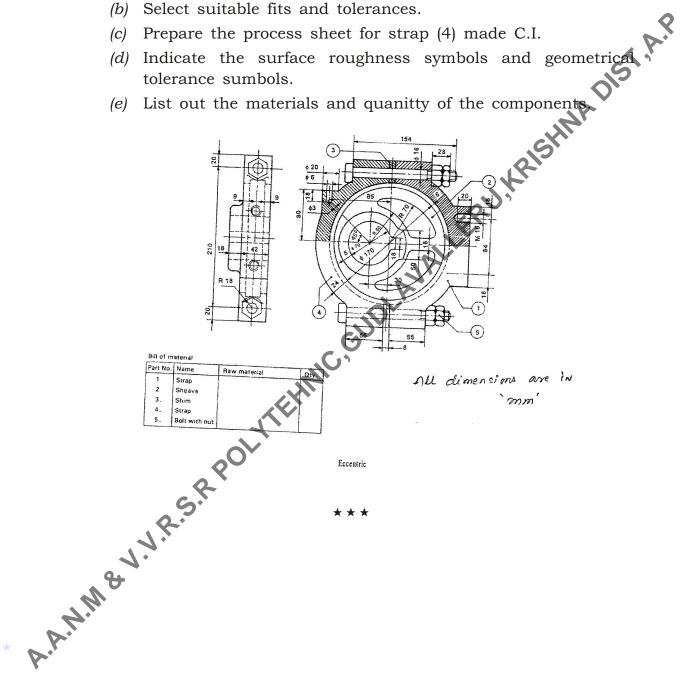***Instructions*** : (1) Answer *any* **five** questions.

(2) Each question carries **ten** marks.

(3) The answers should be comprehensive and the criterion for valuation is the content but not the length of the answer.

5. Study the given assembly drawing of stuffing box shown in fig and answer there following questioins :

(a) Draw the Part drawings for Body and Gland

(b) Select suitable fits and tolerances

(c) Prepare the process sheet for Gland made of Brass

(d) Indicate the surface roughness symbols and Geometrical tolerance symbols.

(e) List out the materials and quanityt of the components.

Bill of material

Part No.	Name	Raw material	Qty.
1.	Gland		
2.	Nut		
3.	Stud		
4.	Body		
5.	Bush		
6.	Shaft		
7.	Packing		

All dimensions are in `mm`

Stuffing Box

6. Study the given assembly drawing of Ecentric shown in fig and answer the following questions:

(a) Draw the part drawings for strap (1) and sheave (2)

(b) Select suitable fits and tolerances.

(c) Prepare the process sheet for strap (4) made C.I.

(d) Indicate the surface roughness symbols and geometrical tolerance sumbols.

(e) List out the materials and quanitty of the components.

Bill of material

Part No.	Name	Raw material	Qty
1	Strap		
2	Sheave		
3.	Shim		
4.	Strap		
5.	Bolt with nut		

All dimensions are in `mm`

Eccentric

★ ★ ★