

## 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

 $4 \times 5 = 20$ 

**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)  $\sim$ 

- 4. Write the meaning of following symbols/specifications
  - (a) Fe 410Q1
  - (b) 80T11

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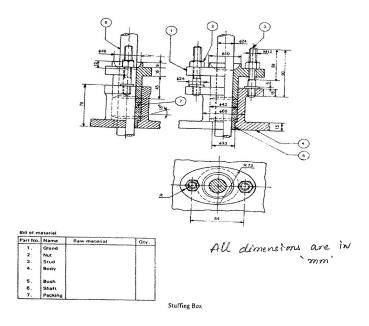
- (c) Oil seal A 25×40×7, IS:5129
- (d) O-Ring, 10/2.5, viton
- (e) Bearing number 205

#### PART—B

 $20 \times 2 = 40$ 

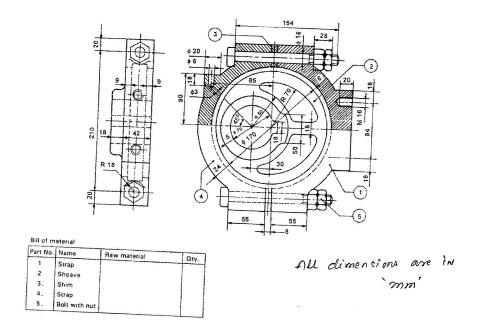
**Instructions**: (1) Answer any five questions.

- (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 questions:
  - (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.



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- **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.



Eccentric

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