



C09-M-407

3507

BOARD DIPLOMA EXAMINATION, (C-09)

OCT/NOV—2016

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.

1. Calculate the values of clearance/interference, hole tolerance and shaft tolerance for a basic size of 40 mm and also determine the type of fit for the tolerances indicated as H7/m6.

2. Draw the symbols for the following : 1×5

(a) Flatness

(b) Circularity

(c) Profile of any line

(d) Angularity

(e) Symmetry

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3. Write the surface roughness values for the following : 1×5
- (a) Hot rolling
 - (b) Cylindrical grinding
 - (c) Lapping
 - (d) Boring
 - (e) Extrusion
4. Give the meaning of the following designations : 1×5
- (a) Hex bolt M20 × 1.5 × 75NL
 - (b) Stud B M20 × 60
 - (c) Taper key 15 × 10 × 70
 - (d) Splines 8 × 23 × 26
 - (e) Ball bearing 205

PART—B

40

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

5. Study the given assembly drawing (Fig. 1) of non-return valve :
- (a) Draw the component drawing (part no. 1, 2, 3, 4) selecting suitable tolerances and fits.
 - (b) Prepare the process sheet for 'Body'.

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- (c) Write the material list for all parts.
- (d) Incorporate proper limit, fit and tolerances on components and mention the surface finish on them. 25+5+5+5=40



