



C16-M—406

5689

BOARD DIPLOMA EXAMINATION, (C-16)
MARCH/APRIL—2018
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) All dimensions are in mm. Choose suitable scale.

(4) Tolerance tables are allowed.

1. Determine the following for 80H7/g6. Find (a) hole tolerance, (b) shaft tolerance, (c) maximum clearance, (d) minimum clearance and (e) type of fit.
2. Sketch the symbols for the following characteristics to be toleranced :
 - (a) Profile of any line
 - (b) Cylindricity
 - (c) Symmetry
 - (d) Run out
 - (e) Position
3. Explain the following designations :
 - (a) Square bolt M 18 1 25 60 N, IS : 2585-B-4·6
 - (b) Splines 6 23 26, IS : 2327
 - (c) Snap head rivet 6 25, IS : 1148
 - (d) Hex. socket head cap screw M 12 40, IS : 2269-P-8·8
 - (e) Oil seal A 25 40 7, IS : 5129
4. List out the reprographic methods for reproductions of drawings.

- Instructions :** (1) Answer *any one* question.
 (2) Each question carries **forty** marks.
 (3) All dimensions are in mm. Choose suitable scale.
 (4) Assume missing data proportionality, if any.

5. Study the given assembly drawing of the knuckle joint as shown in Fig. 1 below : 25+3+3+6+3=40

- (a) Draw the component drawings.
 (b) Apply suitable tolerances and fits.
 (c) Apply suitable geometrical tolerances to components.
 (d) Prepare the process sheet for PIN.
 (e) Show the surface roughness symbols.

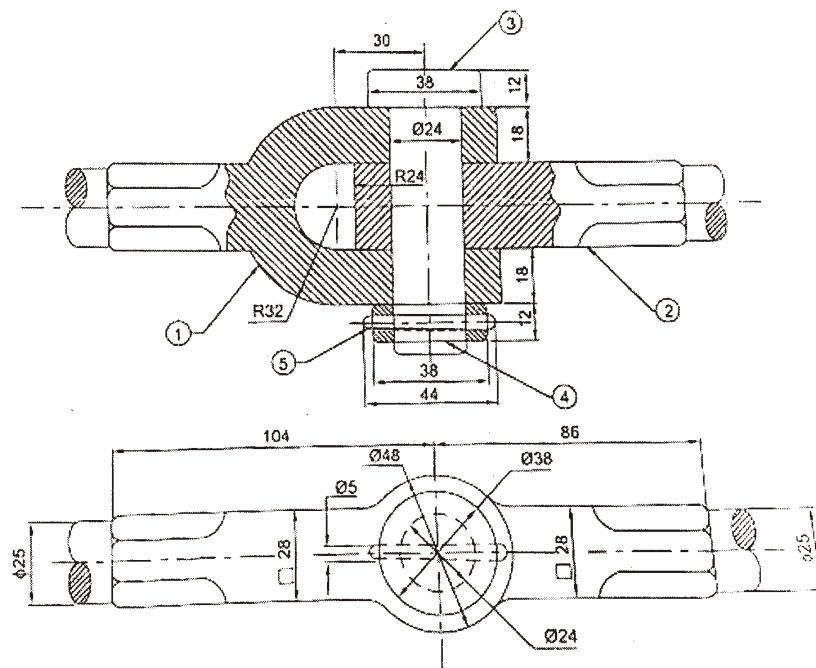


Fig. 1

Part	Title of Part	Material	Qty.
1.	Fork end	Forged steel	1
2.	Eye end	Forged steel	1
3.	Pin	Mild steel	1
4.	Collar	Mild steel	1
5.	Taper pin	Mild steel	1

