

с14-м-407

4483

BOARD DIPLOMA EXAMINATION, (C-14) MARCH/APRIL—2016

DME—FOURTH SEMESTER EXAMINATION

PRODUCTION DRAWING PRACTICE

Time : 3 hours]

[Total Marks : 60

5×4=20

5

5

PART—A

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

- (2) Each question carries **five** marks.
- (3) Draw neatly with proportionate dimensions.
- (4) Use of production drawing tables is allowed.
- Determine the limit dimensions for a clearance fit between the mating parts having nominal diameter of 40 mm, providing a minimum clearance of 0.1 mm with the tolerance of hole as 0.025 mm and that of shaft 0.05 mm follow hole basis system.
- **2.** Draw the machining symbols for the following :
 - (a) To indicate the surface considered
 - (b) If the removal of material is not permitted
 - (c) If the removal of material by machining is required
 - (d) When special surface characteristics have to be indicated
 - (e) If the same surface roughness is required on all the surfaces of a part

3. Explain the following designations : 3+2

- (a) Hex bolt M20 × 1.5×75 NL IS : 1364-S-4.6
- (b) Splines 6 × 23 × 26 IS 2327

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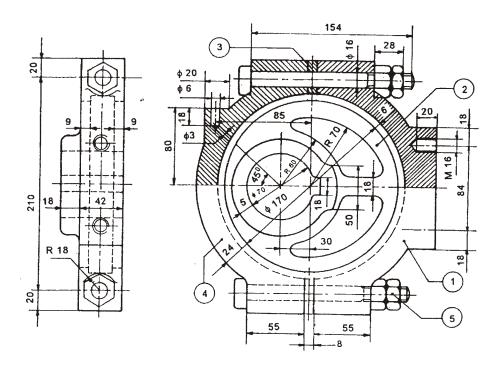
4. List various reprographic methods for reproducing engineering drawings.

5

Instructions : (1) Answer any one question.

(2) Each question carries forty marks.

5. Study the given assembly drawing of the eccentric shown in Fig. 1 :







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

- (a) Draw the component drawings.
- (b) Apply suitable tolerances and fits.

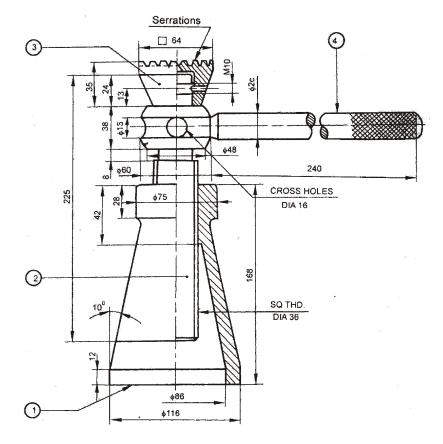


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- (c) Apply suitable geometrical tolerances to components.
- (d) Prepare the process sheet for strap.
- (e) Show the surface roughness symbols.
- (f) List out the materials of the components. 20+5+4+5+4+2=40
- **6.** Study the given assembly drawing of the screw jack shown in Fig. 2 :





Par	ts 1	list

Part No.	Name	Qty.
1	Body	1
2	Screw	1
3	Cup	1
4	Tommy bar	1

- (a) Draw the component drawings.
- (b) Apply suitable tolerances and fits.



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(c) Apply suitable geometrical tolerances to components.

(d) Prepare the process sheet for screw.

- (e) Show the surface roughness symbols.
- (f) List out the materials of the components.

20+5+4+5+4+2=40

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