



C16/C16S-M-406

5689

BOARD DIPLOMA EXAMINATION, (C-16 / C-16S)

MARCH / APRIL - 2019

DME - IV 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) Assume any missing data suitably.
 - (4) All dimensions are in mm.

- 1 Calculate the
 - (a) Tolerance of shaft
 - (b) Tolerance of hole
 - (c) Max. allowance
 - (d) Min. allowance
 - (e) Type of fit both shaft and hole in 180 H7/n6
- 2 Draw the symbols of the following :

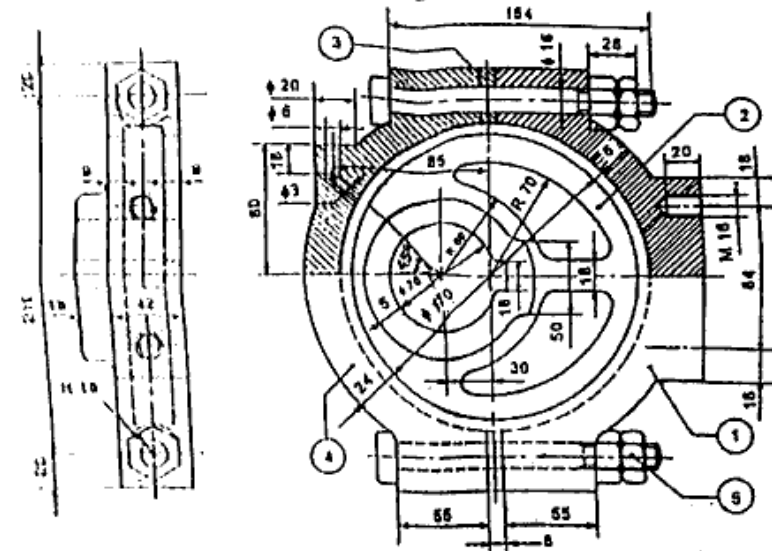
(a) Straightness	(b) Perpendicularity
(c) Angularity	(d) position
- 3 What is the meaning of
 - (a) Hex Bolt M 18 × 70
 - (b) Solid Taper Pin 10 × 60
 - (c) Snap Head Rivet 6 × 25 IS: 2155
 - (d) Taper Key 12 × 8 × 50
 - (e) O-Ring 10/2.5, Viton
- 4 Define Reprographic process. List out reprographic methods.

PART - B

1×40=40

- Instructions :
- (1) Answer any ONE question.
 - (2) Each question carries FORTY marks.
 - (3) All dimensions are in mm and assume missing dimensions if any and choose suitable scale.

5 Study the given Assembly drawing of Eccentric as shown in Fig.



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Bill of material

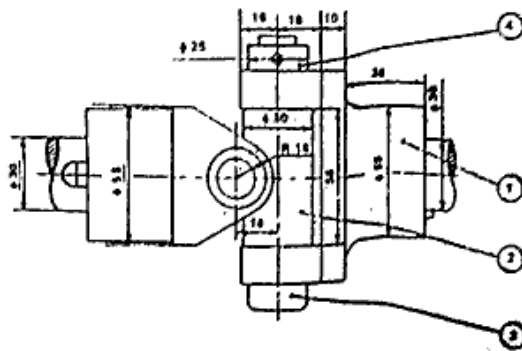
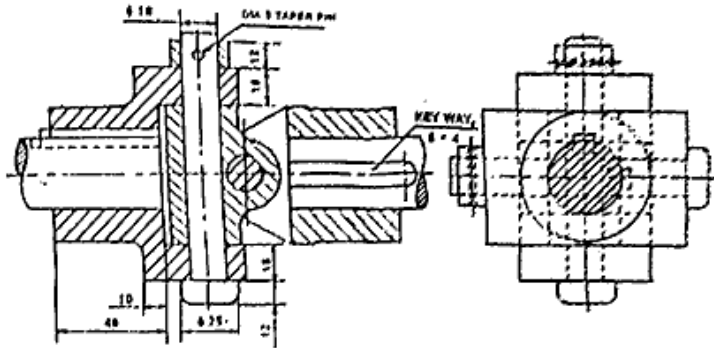
Part No.	Name	Raw material	Qty.
1.	Shaft	C.I - Casting	1
2.	Sheave	C.I - Casting	1
3.	Shim	Brass - Strips	2
4.	Strap	C.I - Casting	1
6.	Bolt with nut	M.S - Std. Components	2

Eccentric

- (n) Draw the component drawings. 25
- (b) Apply suitable fits and tolerances. 03
- (c) Apply suitable geometrical tolerances to each component. 03
- (d) Select surface finish values to the components. 03
- (e) Prepare the process sheet for straps. 06

- (a) Draw the component drawings. 25
- (b) Apply suitable fits and tolerances. 03
- (c) Apply suitable geometrical tolerances to each component. 03
- (d) Select surface finish values to the components. 03
- (e) Prepare the process sheet for Centre Block. 06

6 Study the given Assembly drawing of Universal Coupling as shown in Fig.



Bill of material

Part No.	Name	Raw material	Qty.
1.	Fork	MCS - Forging	2
2.	Centre block	C.I - Casting	1
3.	Pin	CR3 - 425 Bar steel	2
4.	Collar	M3 - 425 Bar steel	2

Universal Coupling
3

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