MAN N.B.(1) Question No. 1 is compulsory. (2) Attempt any four questions from remaining. (3) Assume suitable dimensions wherever necessary. (4) Use drawing sheet only. madies Depuling, may '07 (a) A vertical cylinder of 60 mm diameter and 100 mm leng, has a square hole of 30 mm sides cut through it. The axis of the hole is horizontal, parallel to the VP and 6 mm away from the axis of the cylinder. The faces of the hole are equally inclined to both HP and VP. Draw projections of the cylinder showing hole in it. (b) A vertical cone, base 80 mm diameter, axis 100 mm long, is penetrated by a horizontal cylinder of 40 mm diameter, the axis of which is 25 mm above the base of the cone, parallel to the VP and 6 mm away from the axis of the cone. Draw the projections, showing curves of intersection. Figure shows assembly of a drill jig. Draw the following views for :-Sectional Front View (i) (a) Jig plate Top View. (ii) Sectional Front View (i) Base plate (b) Top View. (ii) Sectional Front View Latch washer (i) Top View. (ii) Workpiese Stoffed cheese head screw 3 ø 60 \$110 8 #156 6 HOLES, #18 . Ø25 9 60 DRILL JIG Ø 150 Ø 216 Parts List Qty. Name Part No. Name Matt. Part No. MS Nut Stem MCS MS Bush

3

8

Ci

MS

Jig plate

Scrow

Stud

Screw

Latch washer

CI

AIS

2

3

4

15

TTURN OVER

3

3

4

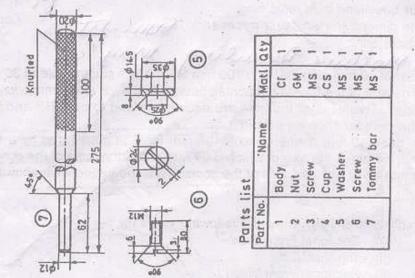
4

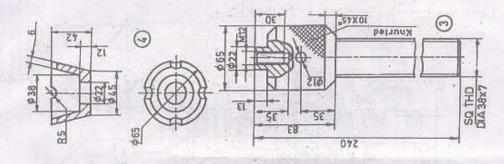
3

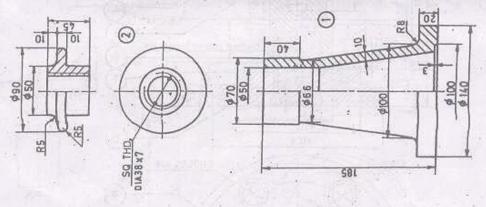
3. Figure shows details of screw jack. Draw the following views of the assembly —

(a) Sectional Front View

(b) Top View.







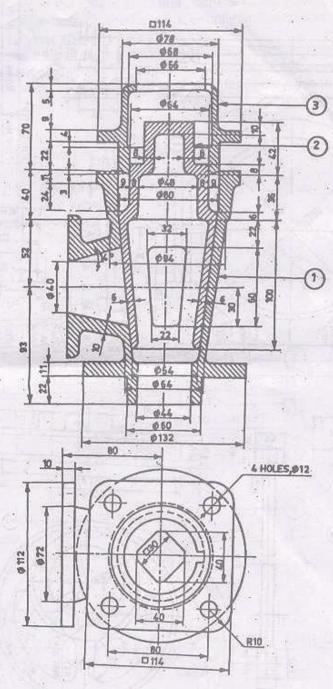
## Con. 3274-ND-1297-07. BE (M) - Sem - IB) M/A

4. Figure shows an assembly of a blow-off cock. Draw the following views for -

(a)	Body	(i)	Sectional Front View
		(ii)	Top View
(b)	Cock	(i)	Sectional Front View
		(ii)	Top View
(c)	Glad	(i)	Sectional Front View
		(iii)	Top View

3 3

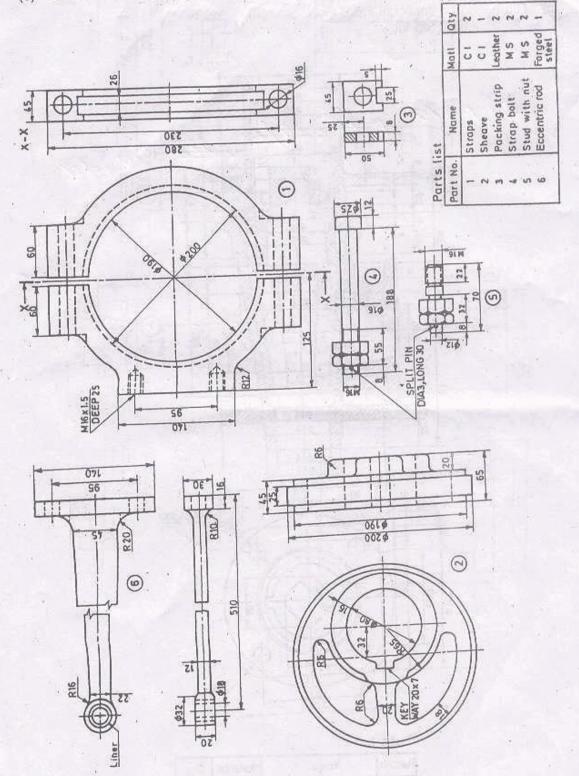
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## Parts list

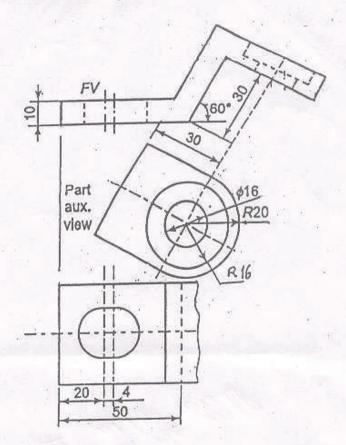
Part No.	Name	Material	Qty.
1	Body	CS	. 1
2	Cock	GM.	3
3 .	Gland	CS	1

- Figure shows the details of Eccentric.
  Draw the following views of the assembly
  - (a) Front View
  - (b)
  - Top View Side View from right. (c)



## Con. 3274-ND-1297-07.

- (a) Figure shows Front View, Auxiliary View and Partial Top View of a block. Draw the following :-
  - (i) Complete Top View
  - Front View (ii)
  - Side View from right. (iii)
  - Draw two views of following :-
    - Flanged coupling (i)
    - Cotter and sleeve joint. (ii)



- (a) Define tolerance, allowance and fit and its type.
  - (b) Explain meaning of φ 50 H<sub>7</sub> / S<sub>6</sub> of tolerance are H<sub>7</sub> : + 25 μm

00 µm

S<sub>6</sub> :+ 59 μm

+ 43 µm

indicate type of fit.

(c) Draw two views of fast and loose pulley assembly.

4

2

4

5

5