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***B.Tech. Degree III Semester Examination in  
Marine Engineering December 2016***

**MRE 1306 MACHINE DRAWING  
(2013 scheme)**

Time : 4 Hours

Maximum Marks : 100

- I. Draw the following views of bracket shown in Fig.1. (20)
- (a) Front view in the direction of F.
- (b) Top view.
- (c) Side view from right side.

OR

- II. Draw the following with dimensions given diameter  $d = 10$  mm. (20)
- (a) Headless tapered bolt.
- (b) Hexagonal socket headed cap screw.
- (c) Collard stud bolt.
- (d) Square headed set screw.

- III. Isometric view of a cut split type muff coupling is shown in Fig.2. Draw the following views. (30)
- (a) Right half sectional front view.
- (b) Top view.
- (c) Sectional end view from right side.

OR

- IV. Isometric view of a marine type connecting rod end is shown in Fig.3. Draw the following views. (30)
- (a) Top half sectional elevation.
- (b) Top view.

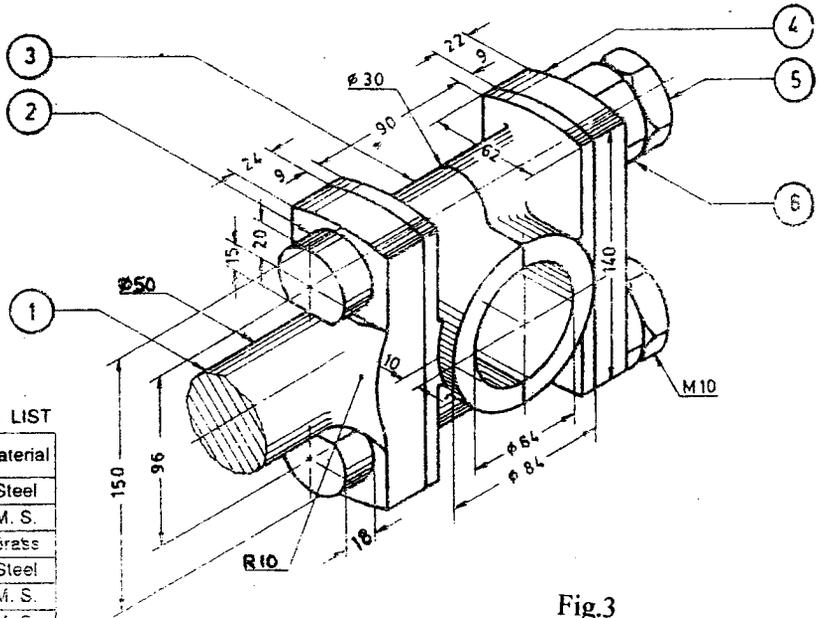
- V. Fig.4 is the sectional elevation of a stop valve. Draw the following views. (50)
- (a) Right half sectional elevation.
- (b) Half sectional end view from left.
- (c) Plan.

OR

- VI. Parts of a lever safety valve are shown in Fig.5. Assemble the parts and draw the following views. (50)
- (a) Right half sectional elevation.
- (b) Plan.

(P.T.O.)

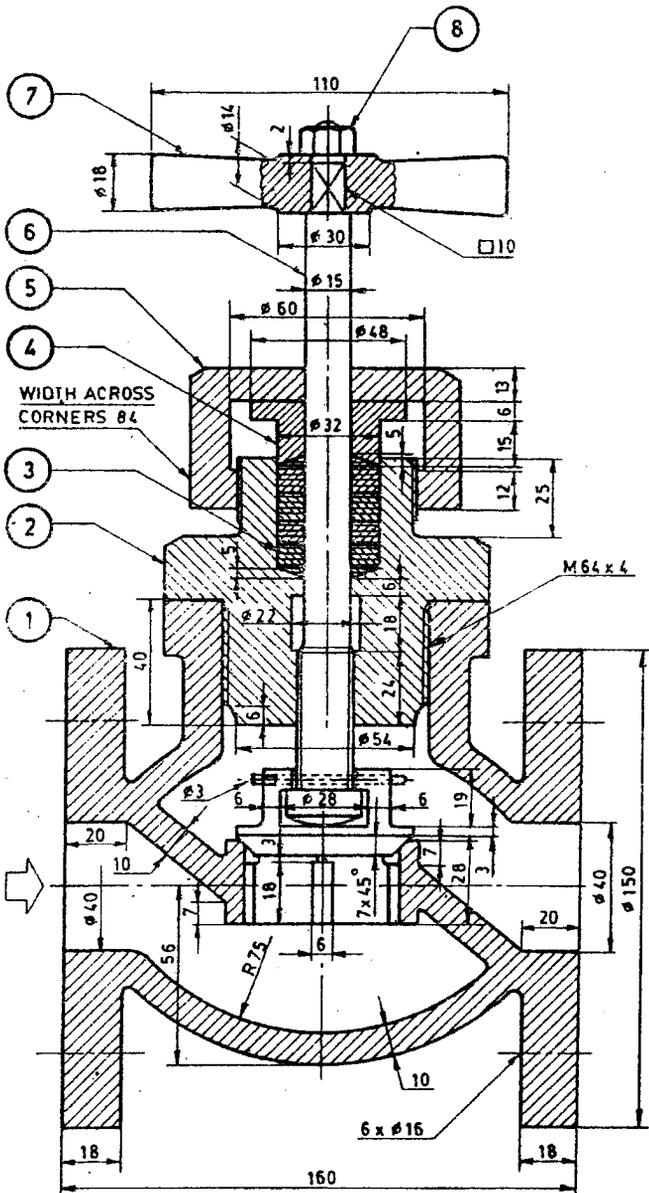




ITEM LIST

Item	Description	Qty.	Material
1	Rod end	1	Steel
2	Bolt	2	M. S.
3	Brasses	2	Brass
4	Cover	1	Steel
5	Locknut	2	M. S.
6	Nut	2	M. S.

Fig.3



ITEM LIST

Item	Description	Qty.	Material
1	Body	1	G. M.
2	Cover (Hexagonal)	1	G. M.
3	Packing	-	
4	Gland bush	1	G. M.
5	Gland nut	1	G. M.
6	Spindle	1	G. M.
7	Handle	1	G. M.
8	Nut	1	G. M.
9	Split pin	1	G. M.
10	Valve	1	G. M.

Fig.4

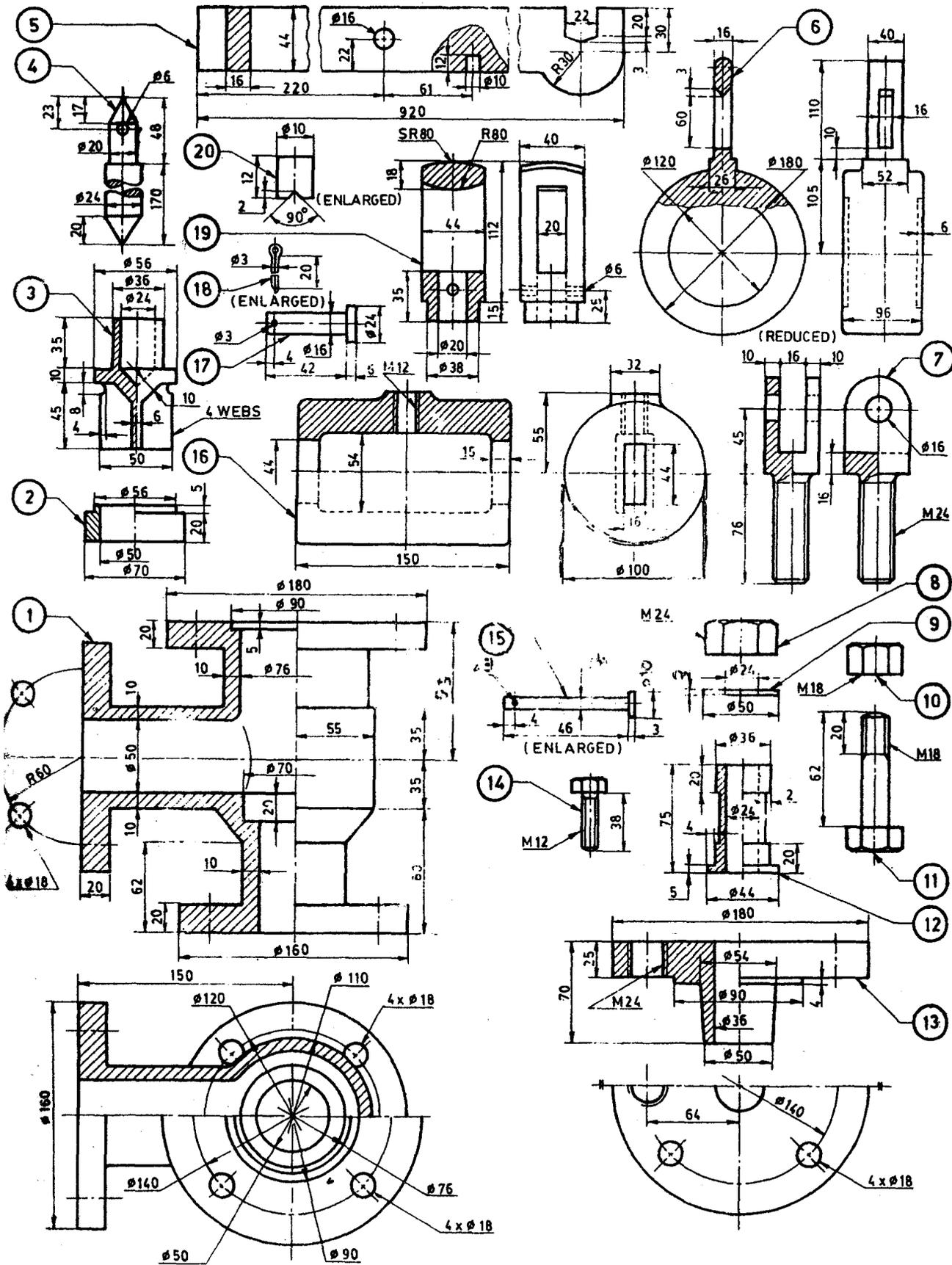


Fig.5