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***B.Tech. Degree V Semester Examination in
Marine Engineering December 2017***

**MRE 1506 MARINE ENGINEERING DRAWING
(2013 Scheme)**

Time: 4 Hours

Maximum Marks: 100

(Missing dimensions if any may be suitably assumed)

(2 × 50 = 100)

- I. The figure. I shows the details of a universal coupling. Draw:
- (a) Sectional elevation of the assembled coupling. (25)
 - (b) End view of one half in section through swivel pins. (25)

OR

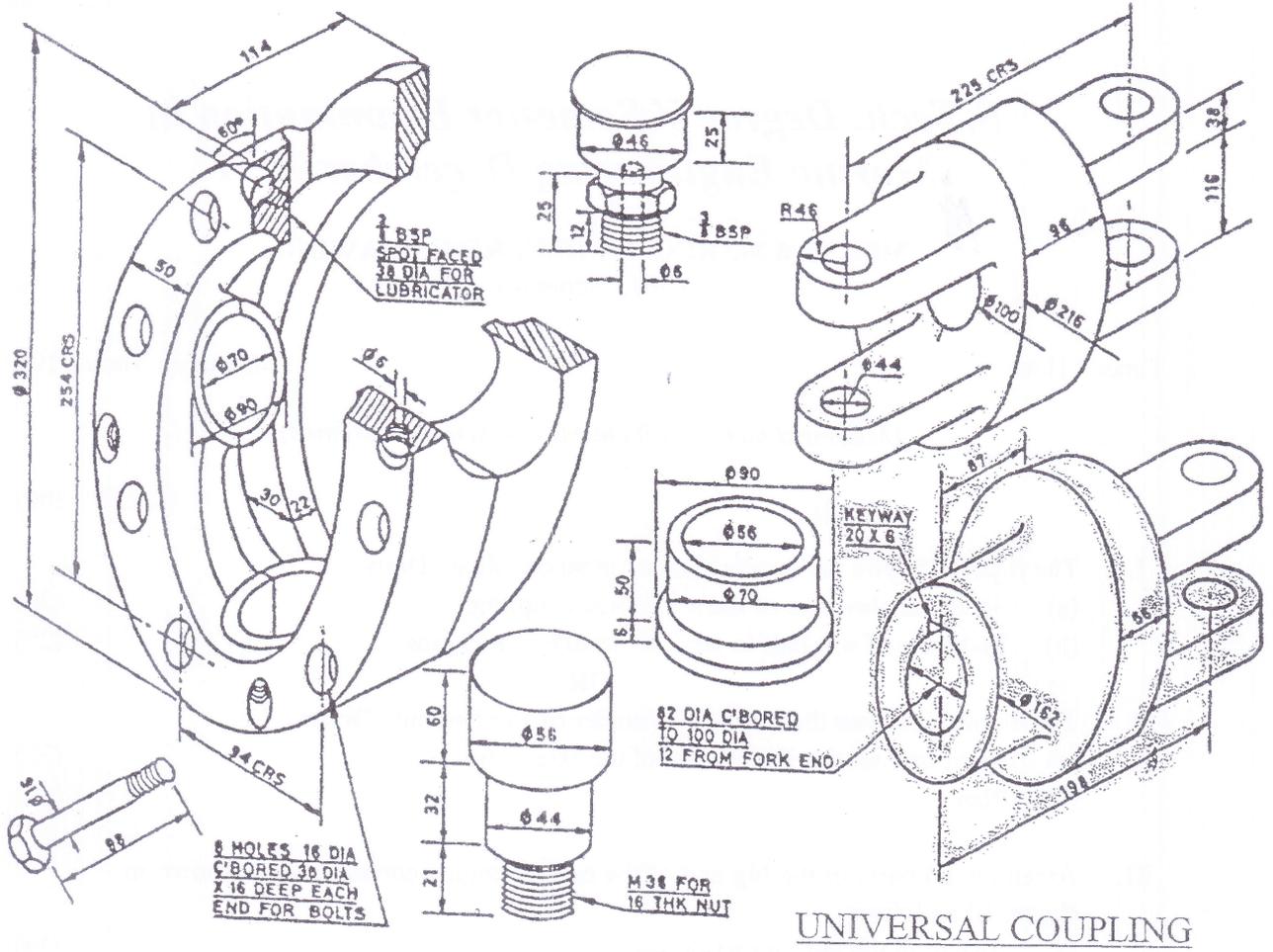
- II. The Figure. II shows the details of a rudder carrier bearing. Draw:
- (a) Right half sectional elevation of the assembly. (35)
 - (b) Plan. (15)

- III. Assemble all parts of the big end of the marine engine connecting rod shown in figure. III and draw:
- (a) Elevation top half in section. (35)
 - (b) Plan. (15)

OR

- IV. Disassembled parts of a cross head is shown in figure. IV. Draw the assembled views of:
- (a) Elevation right half in section. (35)
 - (b) Plan. (15)

(P.T.O.)



UNIVERSAL COUPLING

Fig.1

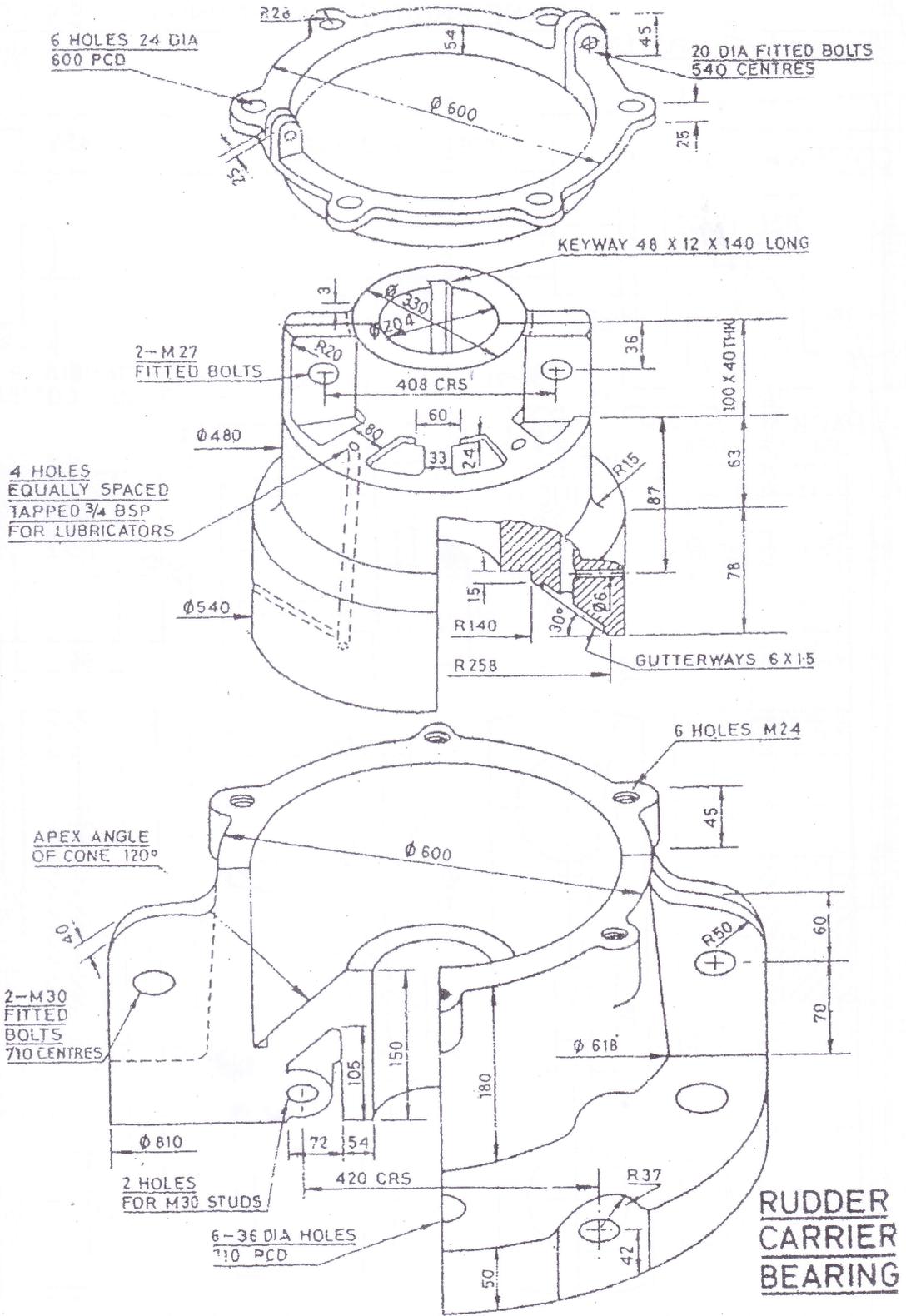


Fig.2

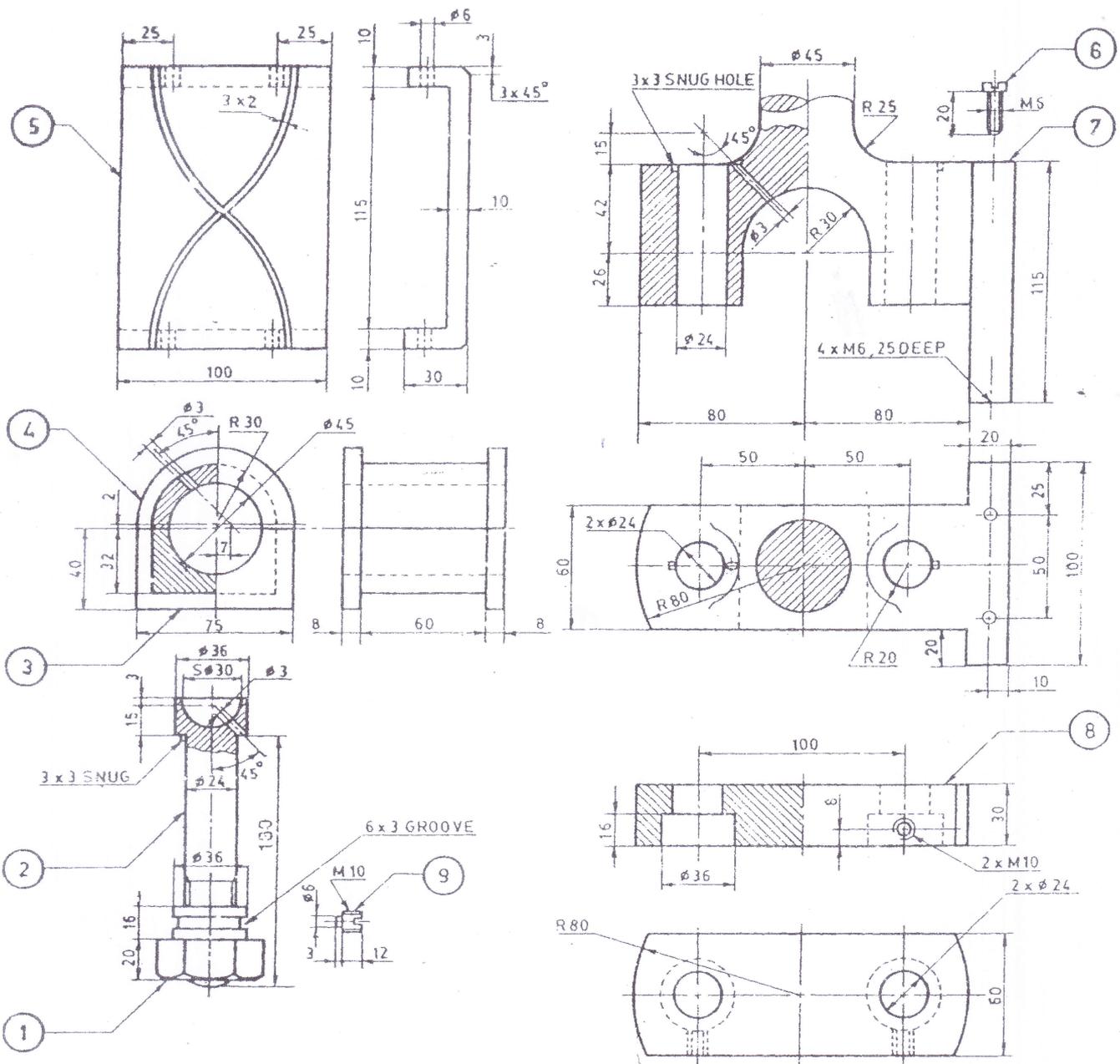


Fig.4

ITEM LIST

Item	Description	Qty.	Material
1	Grooved nut	2	M. S.
2	Bolt	2	M.S.
3	Bearing (Rectangular)	1	Brass
4	Bearing (Half round)	1	Brass
5	Shoe	1	C.I.
6	Set screw	4	M.S.
7	Piston rod end	1	Steel
8	End cap	1	C.S.
9	Grub Screw	2	M.S.

CROSS HEAD