No 1 Website for Andhra University Students

[03 - 2114]

II/IV B.E. DEGREE EXAMINATION.

First Semester

Mechanical Engineering

MACHINE DRAWING

(Common with Mechanical, Metallurgical and M.S. Mechanical Engineering)

(Effective from the admitted batch of 2006 - 2007)

Time: Three hours

Maximum: 70 marks

Answer ALL questions.

1. Sketch any THREE of the following with proportional dimensions :

 $(3 \times 5 = 15)$

- (a) Whitworth thread
- (b) Round key
- (c) Knuckle Joint
- (d) Acme thread and Buttress thread.
- Double riveted, double strap butt joint.
- (a) Make sketches of suitable forms of an Oldham coupling to join the ends of two small shafts of diameter 25mm

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- (b) Sketch sectional front view and side view of solid flanged coupling with D = 80mm. (10)
- 3. Draw the following views of the flange given in figure 1. All dimensions are in mm. (20)
 - (a) Front View
 - (b) Top View and
 - (c) Side View.

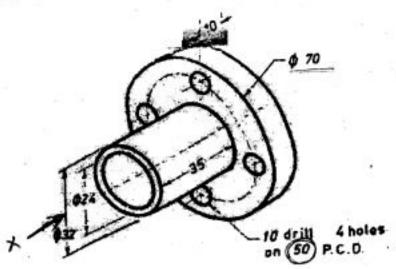


Figure 1

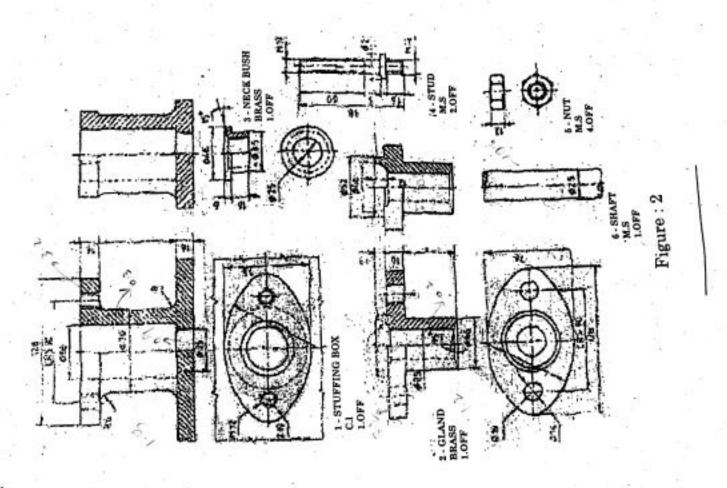
Right half sectional front view

Assemble the parts and draw:

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Half sectional side view

Top view.



The details of the stuffing box for a vertical steam engine are given in Figure 2 below.