

Name:

Enrolment No:



End Semester Examination, December 2024

Program Name: B.Tech. ME

Course Name: Manufacturing & Assembly Drawing

Course Code: MEAD 2014

Nos. of page(s): 03

Semester : III

Time : 3 Hrs

Max. Marks: 100

Instructions:

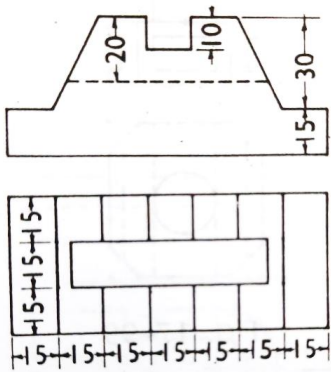
1. Answer all question in proper order
2. Make suitable assumptions (if any needed)
3. Highlight the finally obtained drawings.
4. *A-3 sheets are required for the drawings*

Section A-20 Marks

S. No.		Marks	CO
Q 1	What is the difference between (a) pitch and lead (b) single and multi-start threads?	4	1
Q 2	What are the methods of joining two intersecting shafts transferring power?	4	1
Q 3	What are permanent fastening methods? How are they opened?	4	2
Q 4	What are the advantages of V and Square threads?	4	1
Q5	Draw (freehand) nuts, bolts and washers to explain its types and features.	4	1

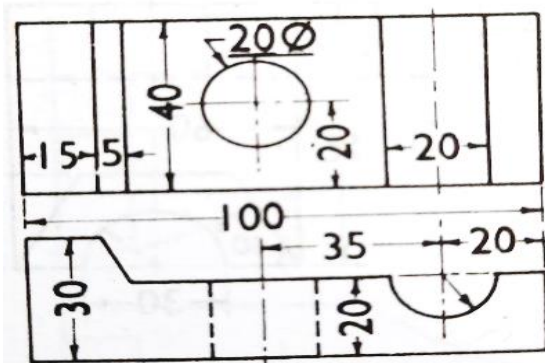
Section B- 50 Marks

Q 6	Draw free hand drawing of the projection of the following (A) Draw the sectional front view and top view of a double-riveted double strap butt joint (Zig-zag type). Take the thickness of the main plate as 16 mm and the thickness of cover plate as 0.7 times the main plate. OR (B) Draw the sectional front view and top view of a double-riveted lap joint (Chain types). Take the diameter of the rivet as 30 mm	25	2
Q 7	Draw the Isometric View of any one of the following (A) The orthographic projections (1st angle Projection Method) of the object is shown in fig below. Draw the isometric view of the object.	25	2



OR

(B) The orthographic projections (Third angle Projection Method) of the object is shown in fig below. Draw the isometric view of the object.

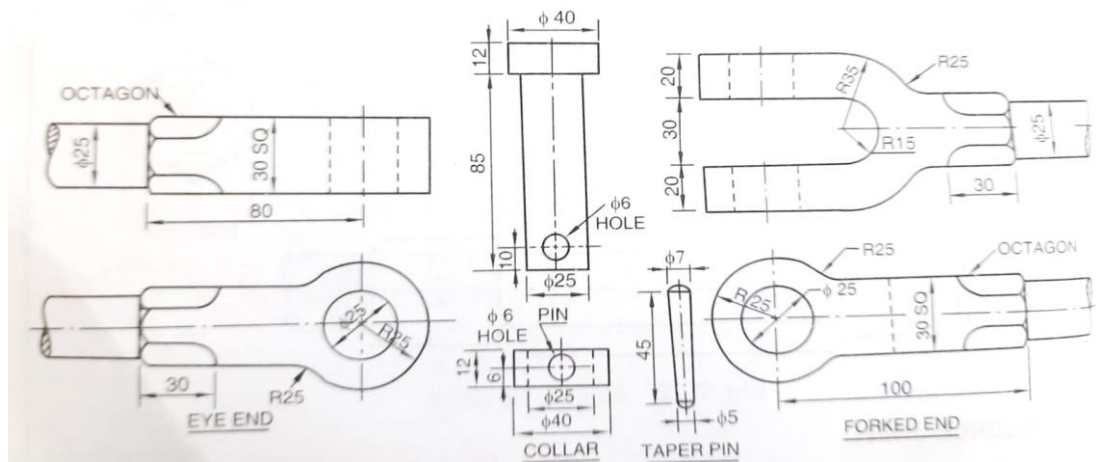


Section C-30 marks (Answer Any one)

Q8

The figure shows the details of a knuckle joint. Assemble all the parts and draw the following views:

- (a) Front view
- (b) Top View and
- (c) Side view



OR

25

3

The figure shows the details of Universal coupling. Assemble all the parts and draw the following views:

- (a) Front view
- (b) Top View and
- (c) Side view

