

ENGINEERING DRAWING-II

2ND EXAM/Electrical/Mechanical/2454/NOV'15

Duration: 3hrs

M. Marks=100

Note: Attempt all Questions.

Q1.(A) Fill in the Blanks:

10x1=10

- a. In double start threads, lead is equal to _____.
- b. When shafts are not perfectly co-axial, _____ coupling is used to join them.
- c. If 't' mm is the thickness of plates to be joined, then rivet diameter is given by _____.
- d. Feed mechanisms of machine tools have _____ threads.
- e. _____ Nut is also known as check nut.
- f. Cotters are driven _____ to axis of the connecting parts.
- g. _____ Washers are used for locking the nuts.
- h. The diameter of a hexagonal nut is 16 mm, its distance (width) across flat will be _____ mm.
- i. Commonly used material for rivet is _____.
- j. The projections drawn with the object lying in front of vertical plane and above horizontal plane are called _____ angle projections.

(B) State True/False

5x1=5

- a) A riveted joint gives a permanent joint.
- b) Generally square threads are used in nuts and bolts.
- c) A coupling is used to connect two pipes.
- d) The cross section of a cotter is generally circular.
- e) A hexagonal nut is preferred over a square nut.

SECTION-B

Note: Attempt any three Questions.

15x3=45

- Q2. Draw the sectional front view and top view of a single riveted double cover chain type butt joint, thickness of plate is 9 mm. Assume pitch of rivets as three times the rivet diameter.
- Q3. Sketch the following:
- i. Knuckle threads
 - ii. Metric threads
 - iii. Two views of a sawn nut
- Q4. Draw front view and top view of square headed bolt. Take bolt diameter = 24 mm. Calculate other dimensions.
- Q5. Give proportionate sketches of any three washers.

SECTION -C

Note: Attempt any two Questions.

20x2=40

- Q6. The figure 1 shows detail drawing of a dove tailed halfing joint. Assemble the parts and draw Front view, Top view and Side view.
- Q7. Draw front view of a protected type flange coupling used to connect two shafts of 25 mm diameter.
- Q8. Make a neat sketch showing two views of a cottered joint with a sleeve for connecting rods each of 40 mm diameters. Give all proportions.

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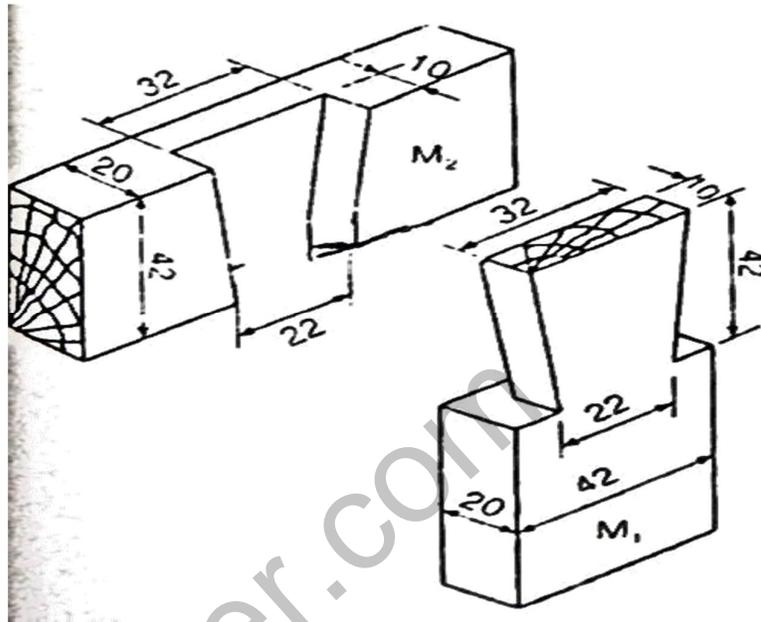


Figure 1