

**ENGINEERING DRAWING-II**

**2<sup>nd</sup> /Mech/Prod/Chem/PT/TT/Marine/T&DM/Aeronautical/Aerospace/2454/2551/5426/MAY'16**

**Duration: 3 Hrs**

**M. Marks=100**

**SECTION A**

**Q: 1(A) Fill in blanks:**

**10x1.5=15**

- a. To draw the single part or several parts individually is called.....
- b. A lap joint having .....rows of rivets either chain or zig-zag riveting, is called a double riveted lap joint.
- c. Pitch=.....times the diameter of rivet.
- d. In double start threads lead is .....the pitch.
- e. The inclined angle in British associated thread is.....
- f. A welded joint gives a.....joint.
- g. Round keys are commonly used for .....
- h. ....nut is also known as check nut
- i. Angle of chamfer in case of a hexagonal nut is equal to.....
- j. A cotter is a wedge like element of.....cross-section.

**(B) True and false:**

**1x5=5**

- a. Two cover plates are used in a lap joint.
- b. Buttress thread is combination of square and V thread.
- c. A riveted joint gives a permanent joint.
- d. A square nut is preferred over a hexagonal nut.
- e. A knuckle joint is used to fasten two circular rods only under axial load.

**SECTION B**

**Q: 2 Attempt any THREE.**

**10x3=30**

- (i) **Fig.1** shows detail drawing of BRIDLE joint. Draw the following assembly views of the joint.  
(i) Front view (ii) Top view
- (ii) Draw any two threads from following :  
(i) Seller thread (ii) B.S.W threads (iii) Knuckle thread. Take pitch=45mm
- (iii) Draw the free hand sketch of lock nut and swan nut
- (iv) Define key. Explain any five types of key with diagrams
- (v) Draw any two types riveted heads

**SECTION C**

**Q: 3 Attempt any TWO.**

**25x2=50**

- (i) Detail of spigot and socket joint for rods to be joined are given in **Fig.2**. Draw the following Views  
(i) Front view upper half section (ii) Top view (iii) Side view
- (ii) Draw front view, top view and side view of hexagonal bolt with hexagonal nut and washer take the diameter of bolt= 24mm.
- (iii) Draw the sectional front view and top view of a double riveted lap joint (zig-zag riveting). Take diameter of rivet= 24mm.

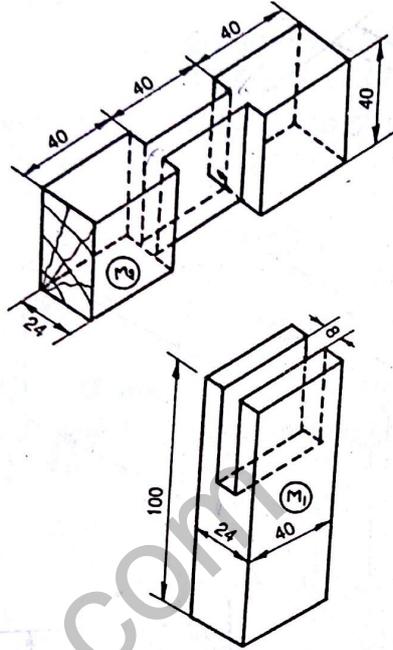


FIGURE - I

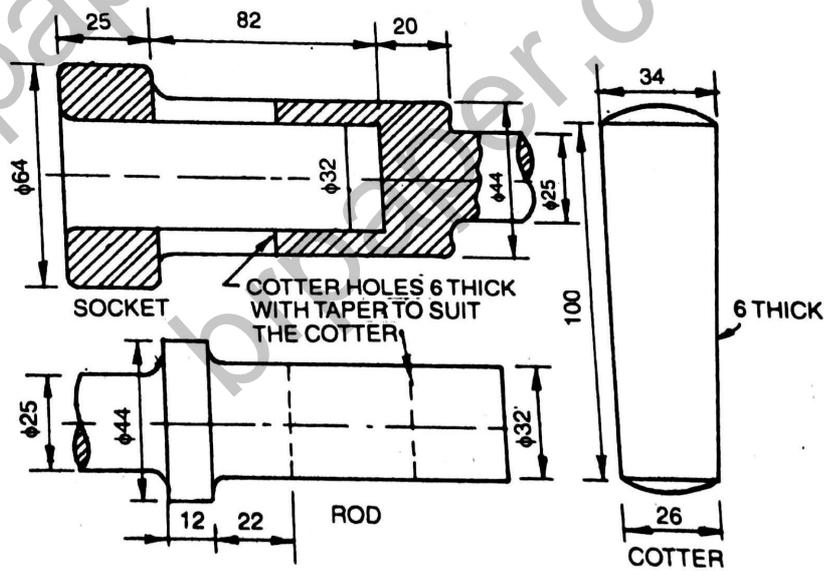


FIGURE - 2