

S. B. Roll. No.....

**ENGINEERING DRAWING-II**  
**2<sup>nd</sup> Exam/Civil/Elect/Mech./Auto/2953/Dec'22**  
**(For 2018 Batch Onwards)**

**Duration: 4Hrs.**

**M.Marks:100**

**SECTION-A**

**Q1. Fill in the blanks.**

**10x1=10**

- a. A thread formed on the outer or external surface of the member is known as \_\_\_\_\_
- b. A part used with a bolt to fasten two parts together temporarily is called as \_\_\_\_\_
- c. Nuts are generally of \_\_\_\_\_ and \_\_\_\_\_ forms.
- d. In rectangular key, the width of key is \_\_\_\_D.
- e. Riveted joints are \_\_\_\_\_ fastenings.
- f. \_\_\_\_\_ is the distance between the centres of the adjacent rivets in the same row.
- g. The keys are made integral with the shaft, by cutting equi-spaced grooves of uniform cross-section are known as \_\_\_\_\_
- h. A spring washer is provided where there are \_\_\_\_\_ in machinery.
- i. Woodruff key is a \_\_\_\_\_ type of sunk key.
- j. The surface between the crest and the root is known as \_\_\_\_\_ of a thread.

**SECTION-B**

**Q2. Attempt any three questions.**

**3x10=30**

- i. Draw the proportionate sketch of Hexagonal bolt.
- ii. Differentiate between caulking and fullering with diagram.
- iii. Draw the basic thread forms of a) British Association thread      b) American's thread form.
- iv. Draw any four types of rivet heads.
- v. Discuss the difference between keys and cotters.

**SECTION-C**

**Q3. Attempt any two questions.**

**2x30=60**

- a. Draw the sectional front view and top view of a single riveted, single cover butt joint. Take the diameter of the rivet = 24mm.
- b. Draw the front view and side view of hexagonal headed bolt with a hexagonal nut and washer. Take diameter of bolt = 24mm and 96mm long.
- c. **Figure 1** show the detail drawings of spigot and socket cotttered joint. Assemble all these parts and draw    i) Sectional front view    ii) Top view    iii) Left hand side view.

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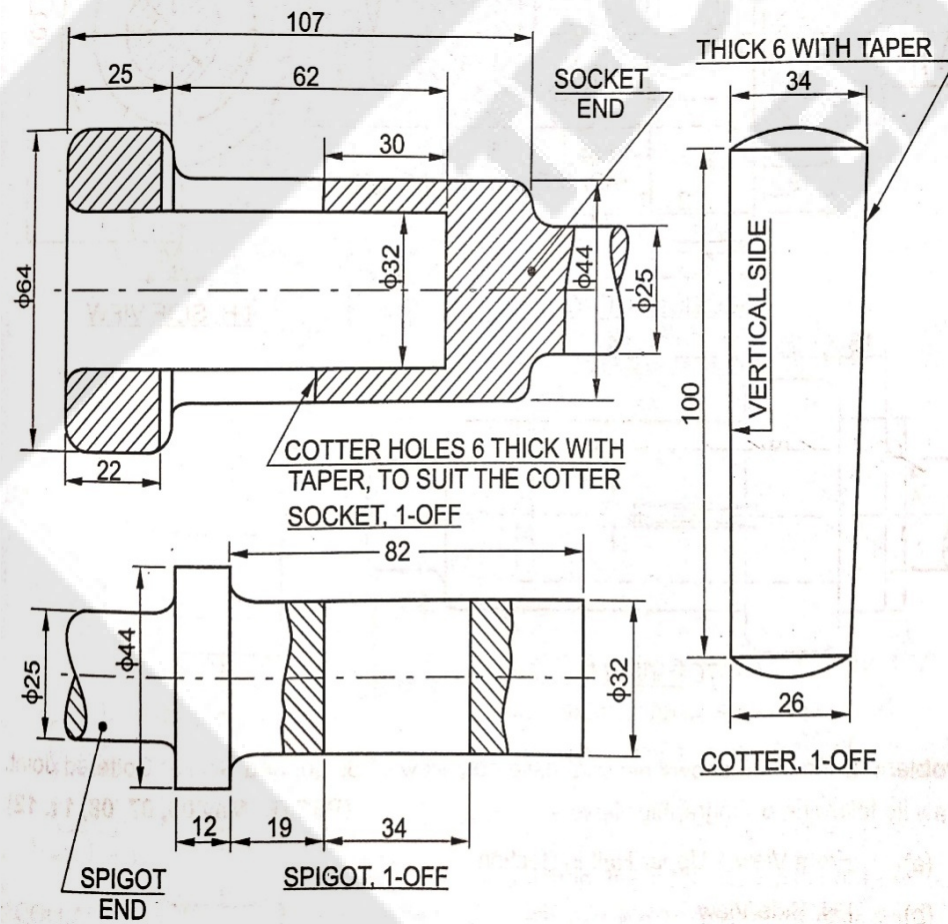


Figure 1