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Total No. of Pages : 4

Total No. of Questions : 09

## B.Tech. (AE) (Sem.–3) MACHINE DRAWING Subject Code : BTAE-306 (2011 Batch) Paper ID : [A1156]

Time : 3 Hrs.

Max. Marks : 60

### INSTRUCTION TO CANDIDATES :

- 1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. SECTION-B contains FIVE questions carrying FIVE marks each and students has to attempt any FOUR questions.
- 3. SECTION-C contains THREE questions carrying TEN marks each and students has to attempt any TWO questions.

## **SECTION-A**

- l. Write briefly :
  - a. What is difference between allowance and tolerance?
  - b. Why sectional views are used in drawing?

  - d. Why are split muff coupling used in preference with solid muff?
  - e. Why brasses are used in connecting rod ends and why are these made of soft metals?
  - f. What is blow-off cock and where it is used?
  - g. What are the functions of steam stop valve?
  - h. What is the advantage of providing bush in a bearing and what is the material of bush?
  - i. Draw the free hand sketch of hexagonal bolt.
  - j. What is the use of tailstock in a lathe and how is it operated?

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#### **SECTION-B**

- 2. What are the different types of machine drawing? Explain Production drawing in detail.
- 3. Draw plan and sectional elevation of a double riveted butt joint (Single cover and chain riveting). Take diameter of rivet: 25 mm.
- 4. Draw free hand upper half sectional-front elevation of a protected type flange coupling on proportionate scale.
- 5. What is the strength of transverse fillet welded joint?
- 6. Discuss the various commands available in Auto-CAD to draw a pentagon.

#### **SECTION-C**

7. Draw the full sectional front view and side view of the flange coupling as shown in figure 1.

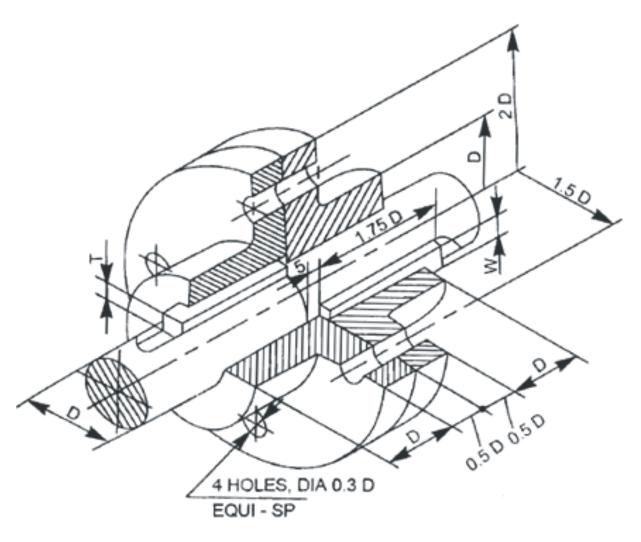


Figure. 1

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8. Draw the front view and top view of foot step bearing as shown in figure 2.

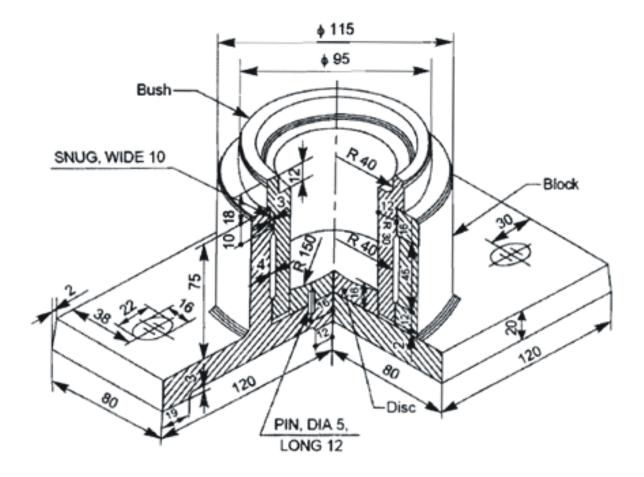
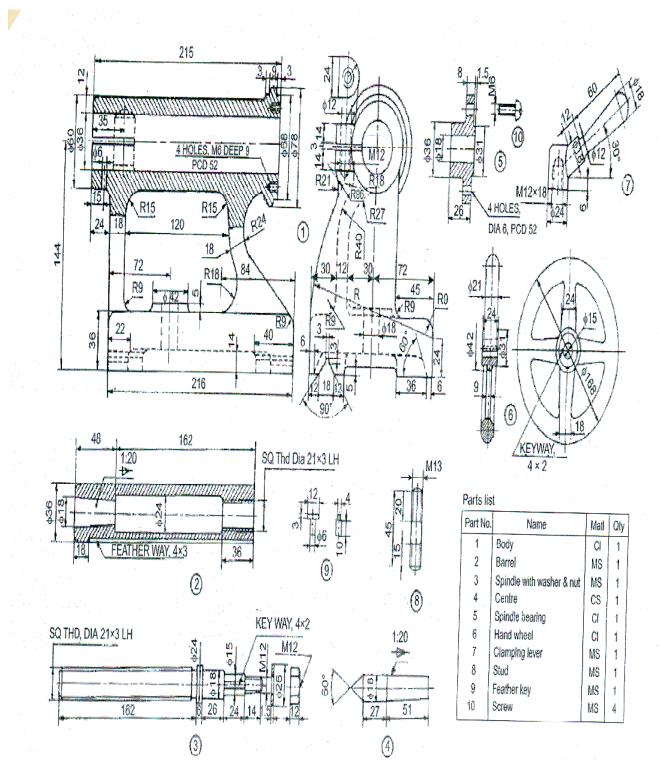


Figure. 2.



9. Figure-3 shows the details of a Lathe tail stock. Assemble all the parts and draw the Front View.

Figure. 3.

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