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Roll No. | | | | | | | | | | | | Total No. of Pages : 04

Total No. of Questions : 09

B.Tech (AE/ANE/ME)/(IE) (ALL) (Sem.–3)

MACHINE DRAWING

Subject Code : A0804

Paper ID : [ME-207]

Time : 3 Hrs. Max. Marks : 60

INSTRUCTIONS 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 have to attempt any FOUR questions.**
3. **SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.**

SECTION-A

1. Write briefly :

(a) Draw the symbol of first angle projection sytem.

(b) What are multi-start threads ?

(c) What is meant by progressive dimensioning ?

(d) What is the purpose of caulking ?

(e) What is the advantage of providing bush in a bearing ?

(f) Give an example of the indication of surface roughness.

(g) What is a unilateral tolerance ?

(h) What are temporary fasteners ?

(i) Give the symbols of fillet weld and seam weld.

(j) What is the function of connecting rod in IC engine ?

SECTION-B

2. Draw a metric thread and show its full details.

3. Draw the sectional front view and top view of a single riveted single cover butt joint. Take rivet diameter = 24 mm.

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4. Draw the front view and side view of a square headed bolt of 24 mm diameter and length 96 mm with a hexagonal nut.

5. Draw the full sectional front view of oldham coupling by assuming suitable dimensions.

6. What is the purpose of 'Array' command in AutoCAD ? Explain with the help of an example.

SECTION-C

7. Figure-1 shows the pictorial view of spigot and socket joint. Draw its front view with upper half in section.

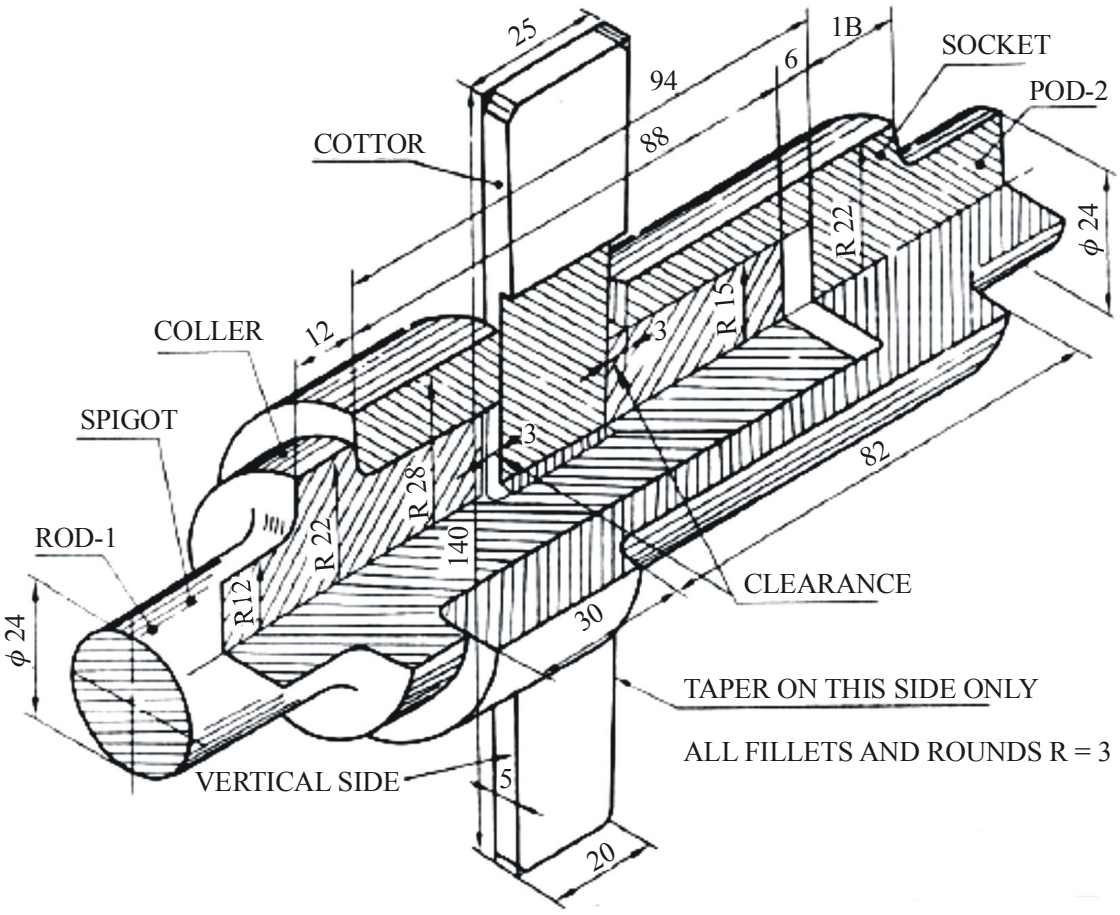

Figure 1.

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8. Figure-2 shows the details of expansion pipe joint. Assemble the parts and draw the full sectional front view of the assembly.

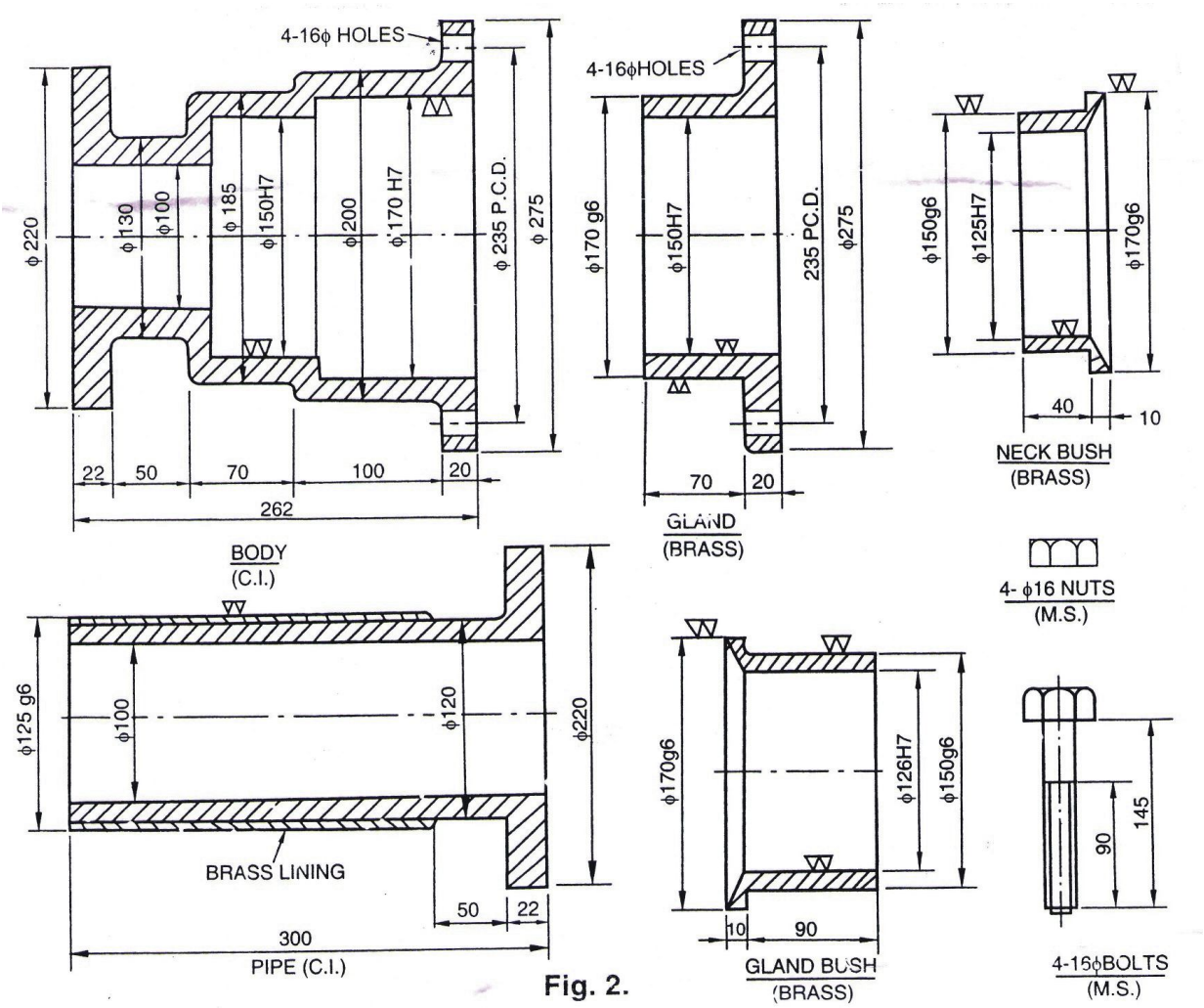

Fig. 2.

Figure 2

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9. Figure-3 shows the details of an atomiser. Assemble the parts and draw the front view with right half in section.

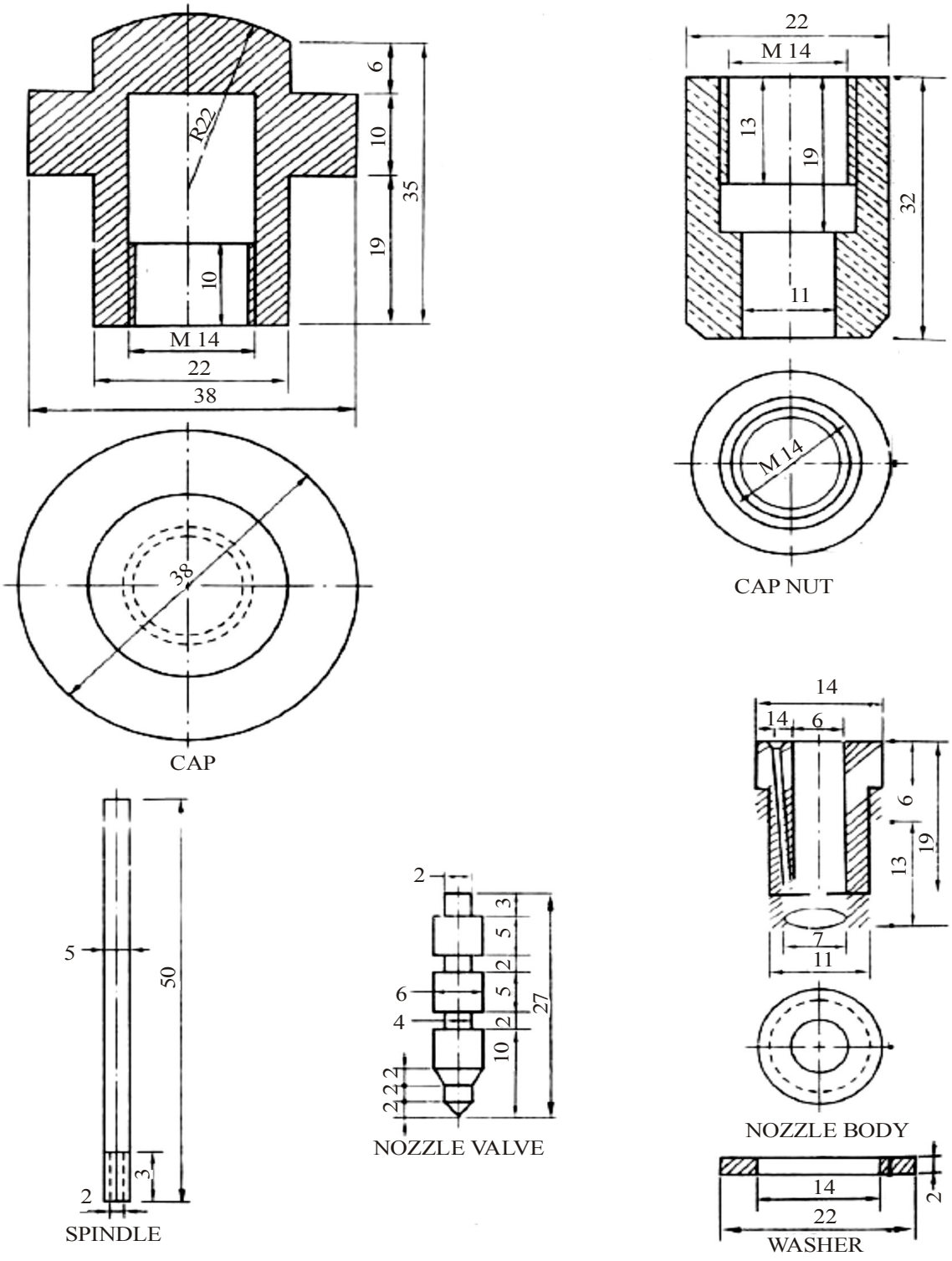

Figure 3

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