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**Roll No.** | | | | | | | | | | | | **Total No. of Pages : 03**

**Total No. of Questions : 08**

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

# MACHINE DRAWING

**Subject Code : ME-207**

**Paper ID : [A0804]**

**Time : 4 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 have to attempt any FOUR questions.**
3. **SECTION-C is COMPULSORY carrying TWO questions of TEN marks each.**
4. **First angle projection to be used.**
5. **You may assume any missing dimension.**

## SECTION-A

**1. Write briefly :**

a) With suitable sketch, explain the method of dimensioning of (i) circle (ii) Arc.

b) Draw conventions for (i) internal threads (ii) rubber.

c) What is difference between allowance and tolerance?

d) What do you understand by (i) length of weld (ii) size of weld?

e) What is advantage of castle nut over common hexagonal nut?

f) What do you understand by flexible coupling?

g) What is expansion joint?

h) What is function of blow off cock?

i) Write two common materials which are used for making bushes.

j) What is a stud?

## SECTION-B

2. Draw profile of BSW threads by taking pitch of 20 mm. Represent calculations and show dimensions on the drawing.

3. Draw free hand front view of muff coupling.

4. Draw free hand sketch of single plate friction clutch.

5. Draw two views of a hexagonal nut. Take diameter as 15 mm.

6. Discuss the following commands of Auto CAD. (i) Break (ii) Trim (iii) Extrude

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## SECTION-C

7. Assemble the parts of a Connecting rod given in **Fig. 1** and draw the following views :
   (i) Elevation
   (ii) Top view (full section).

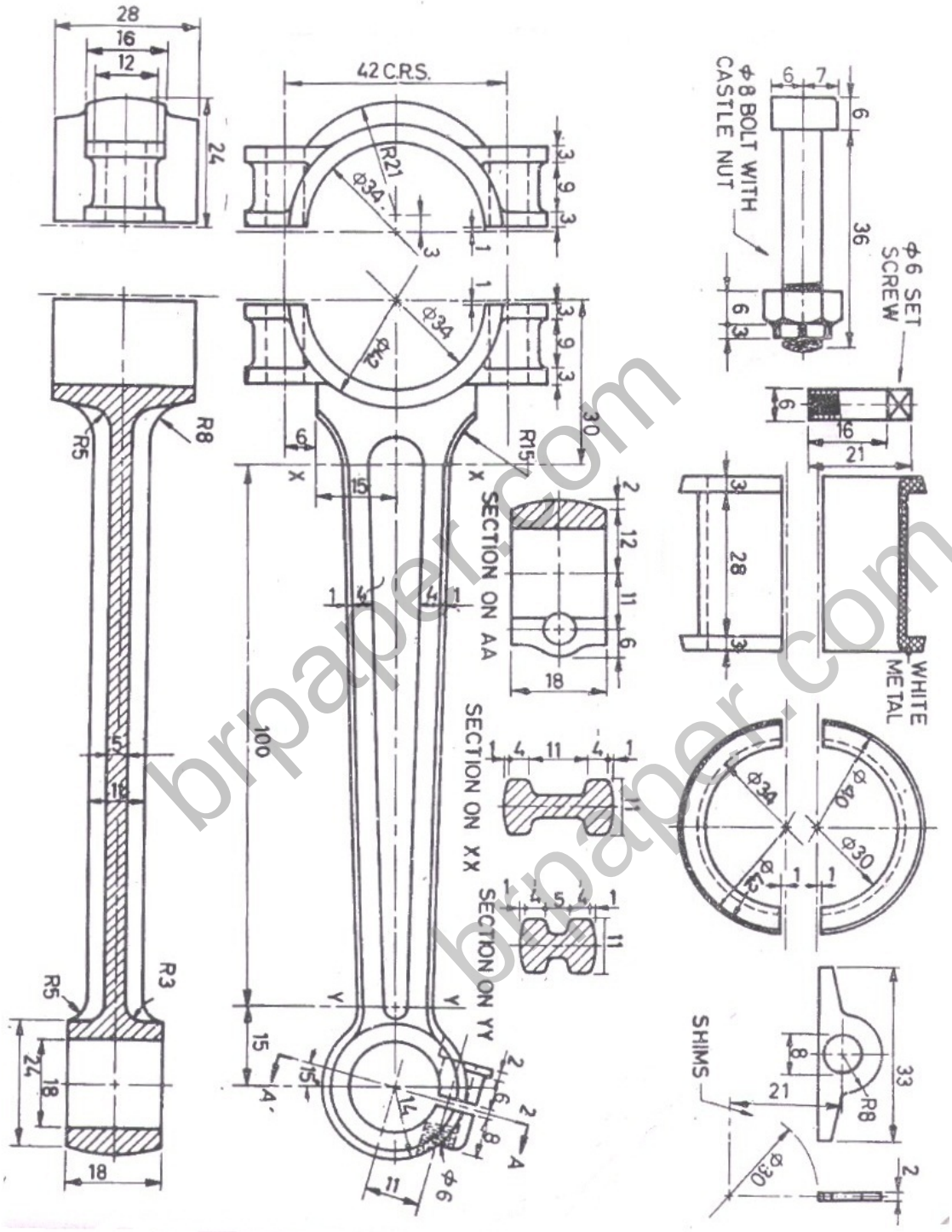


**Fig. 1 Petrol engine connecting rod**

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8. Assemble the parts of a crane hook given in **Fig. 2** and draw the following views :

   (i) Elevation full in section

   (ii) Side view.

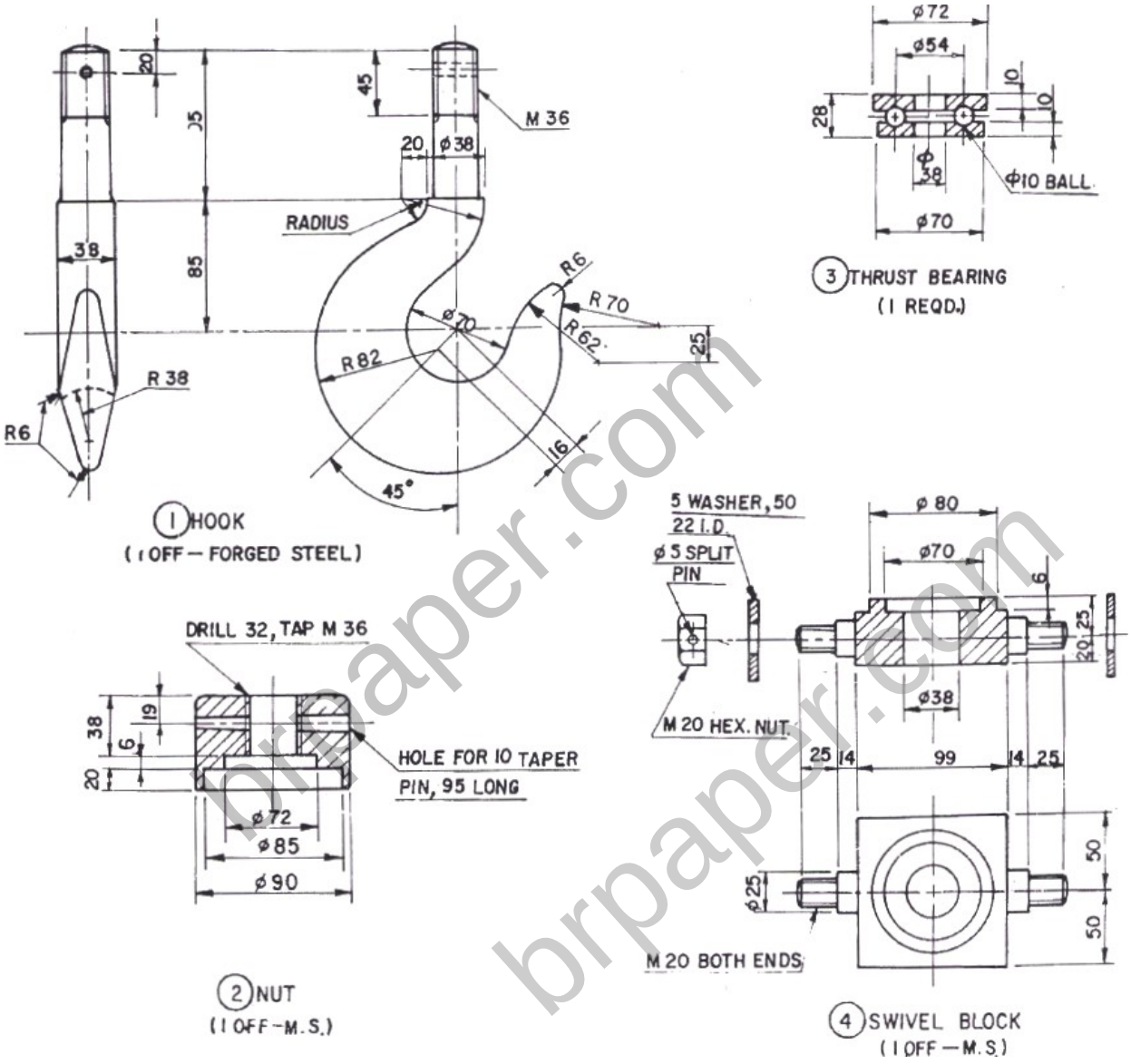


**Fig. 2**