

FACULTY OF ENGINEERING  
B.E. 2/4 (Mech./Prod./A.E.) I Semester (Old) Examination, January 2012  
MACHINE DRAWING

Time : 3 Hours]

[Max. Marks : 75

- Note :** 1) Answer **all** questions from Part A and Part B.  
2) **Assume** proportionate dimensions **wherever** necessary.  
3) **Choose** suitable scale and indicate proportions for **free hand** sketches.  
4) **Fold** the drawing sheet to the size of **main** answer book.

PART – A

25 Marks

1. Draw any two orthogonal simple projections of the component shown in Fig. 1.

7

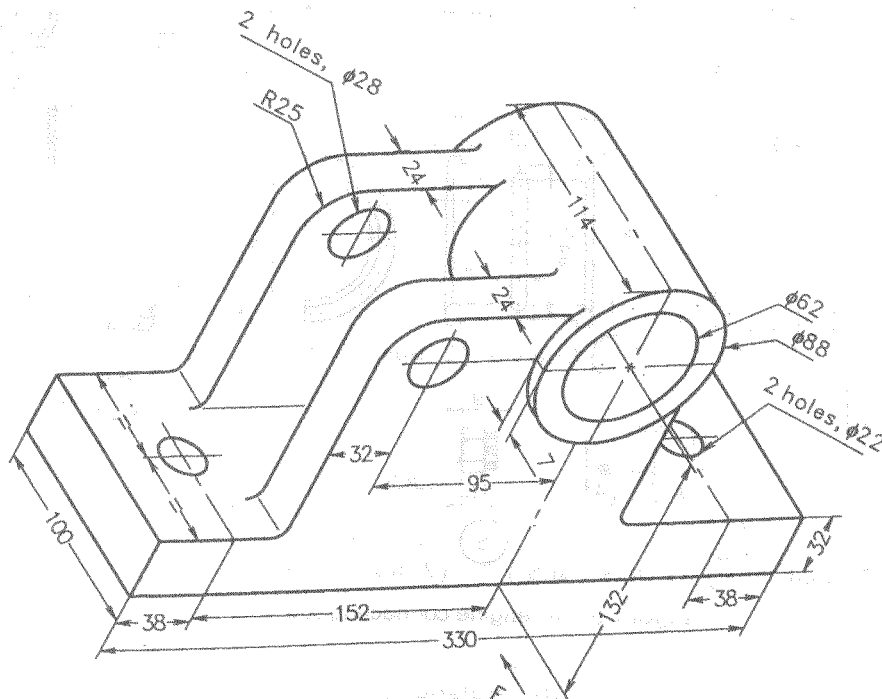
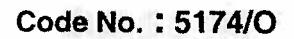


Figure 1

2. Draw the top view and sectional view of single riveted lap joint to join plates of thickness 10 mm.
3. Draw the side and half sectional views of a flanged coupling to connect two solid shafts of each 30 mm diameter. Indicate the proportionate dimensions of each of the components.

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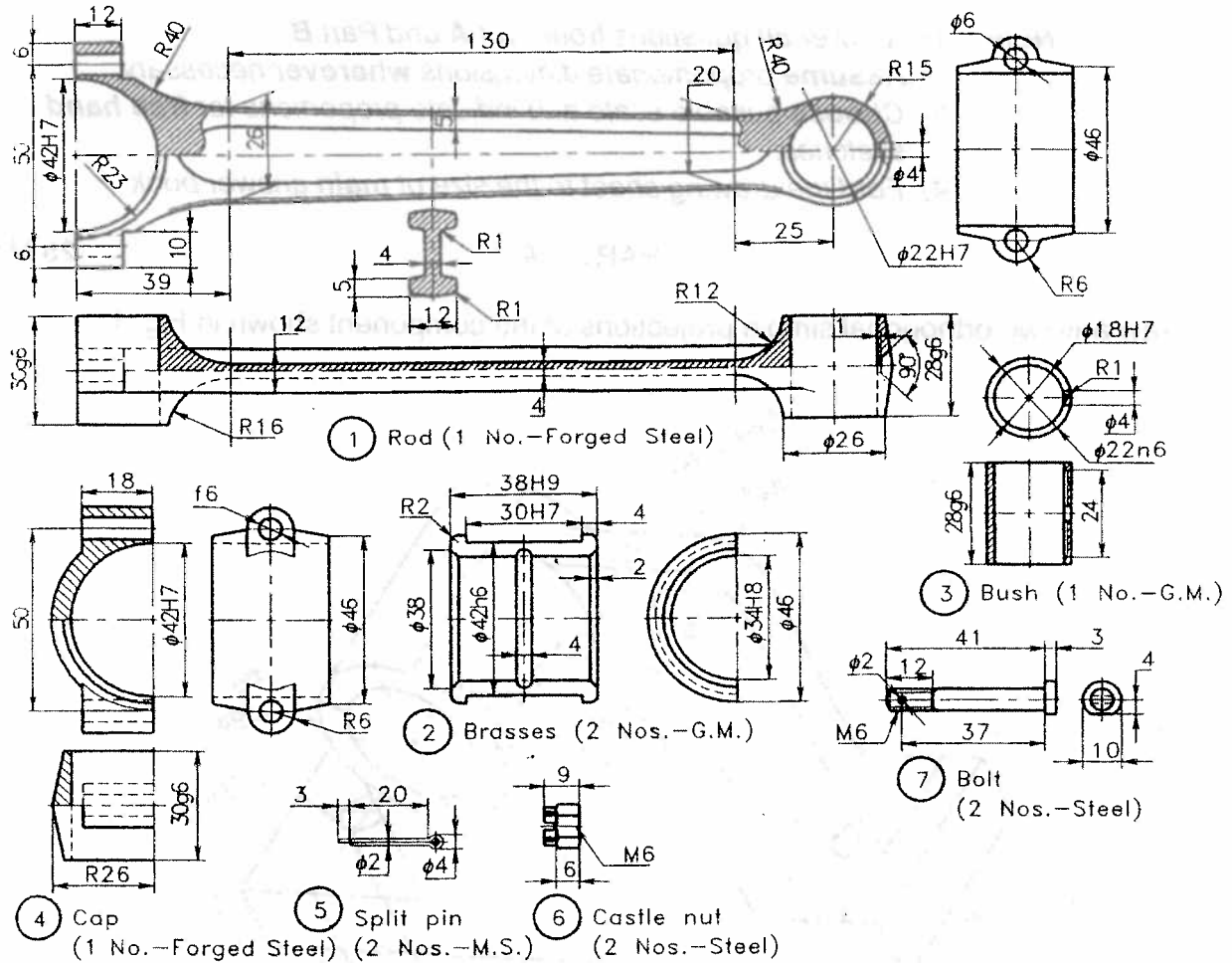
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PART - B

**50 Marks**

- i) Sectional front view and ii) Top view.



**Figure 2** IC engine connecting rod

| Item | Description | Qty. | Material |
|------|-------------|------|----------|
| 1    | Rod         | 1    | F. Steel |
| 2    | Brasses     | 2    | G.M.     |
| 3    | Bush        | 1    | G.M.     |
| 4    | Cap         | 1    | F. Steel |
| 5    | Split pin   | 2    | M.S.     |
| 6    | Castle nut  | 2    | Steel    |
| 7    | Bolt        | 2    | Steel    |

## Parts List