

Indian Institute of Technology Kanpur  
TA101AA: Engineering Graphics  
2021 - 2022 Sem II

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Home Assignment no.3  
Orthographic Projection with dimensions + Simple Isometric View

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- a) All problems to be done on A4 size sheet in drawing book/sketch book.
- b) Write your name, roll no. etc. in the title block using **BLUE PEN**.

**Question 1**

Three orthographic views of an object (top, front and left side view) in the third angle projection are shown in figure below. Make an isometric view of the object. The isometric drawing/view should correspond to the given orthographic views such that the left view goes on the left face of the isometric box and front goes to the right face of the isometric box. Do not dimension. (35 Marks)

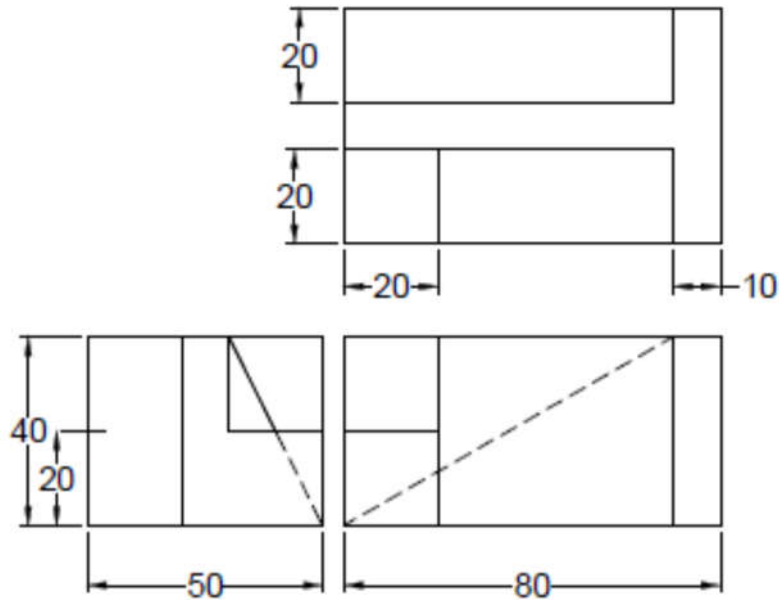


Figure 1

### Question 2

Draw the 3 orthographic views of figure 2 (a) and (b) (FTL) in free hand. Assume suitable dimensions and don't dimension the drawing. Use third angle Projection. **(30 marks)**

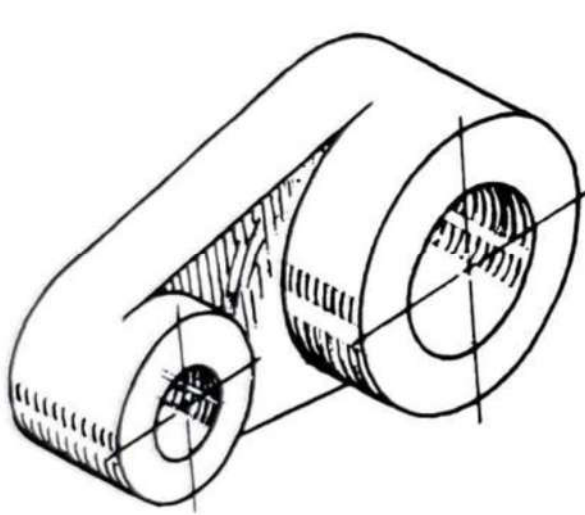


Figure 2 (a)

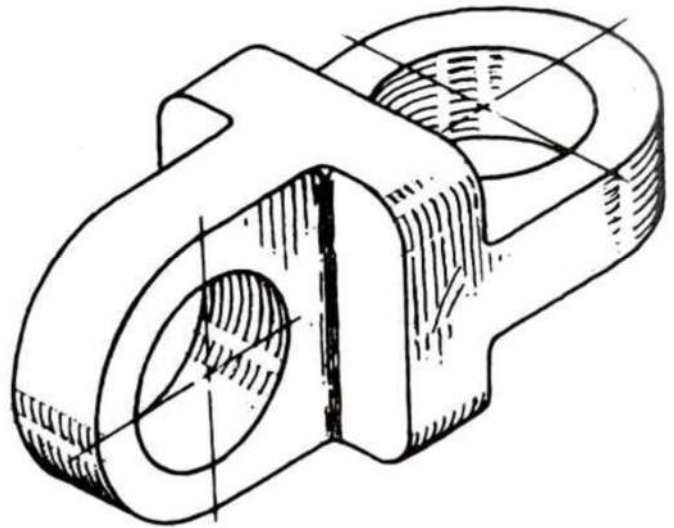


Figure 2 (b)

### Question 3

Draw the three orthographic views (Front, Top and Right side view) of the object whose pictorial view is given in the figure below with the arrow indicating the front viewing direction. Dimension the drawing using aligned dimensioning. Dimensions of various features on the front protrusion are similar to the corresponding ones on the side protrusion. Use **third angle projection**. **(35 Marks)**

