



C14-A/AEI/BM/CHST/C/CM/EC/EE/CH/  
CHPP/CHPC/CHOT/PET/M/RAC/MET/  
MNG/IT/TT/PCT-**107**

**4005**

**BOARD DIPLOMA EXAMINATION, (C-14)**

**SEPTEMBER/OCTOBER - 2020**

**FIRST YEAR (COMMON) EXAMINATION**

**ENGINEERING DRAWING**

*Time : 3 hours ]*

*[ Total Marks : 60*

**PART—A**

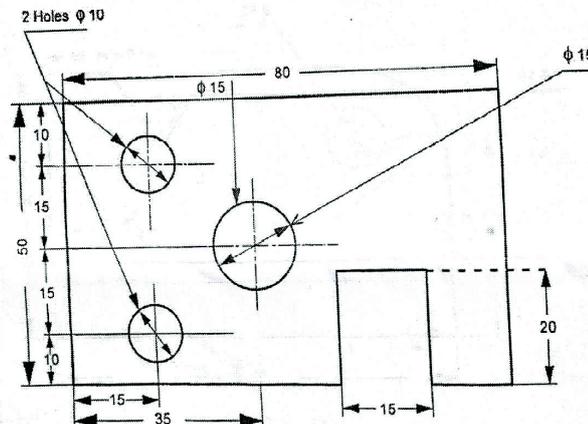
5×4=20

- Instructions :** (1) Answer **all** questions.  
(2) Each question carries **five** marks.  
(3) Take suitable scale wherever required.  
(4) All dimensions are in mm.

1. Print the following in single-stroke upright vertical letters in 10 mm size :

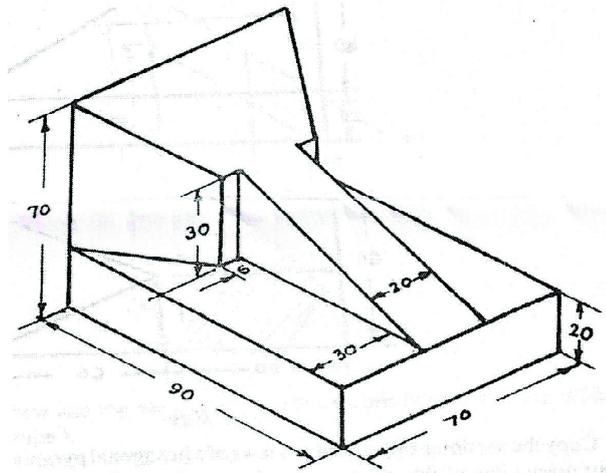
**STRENGTHEN THE MORAL VALUES**

2. Redraw the following figure and dimension it as per SP : 46-1988 :



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3. Draw the tangent to a circle of radius 20 mm from a point at 60 mm from its centre.
4. Draw the top view and auxiliary view of the inclined surface.



### PART—B

10×4=40

**Instructions :** (1) Answer *any four* questions.

(2) Each question carries **ten** marks.

5. Construct an ellipse by concentric circles method with the following information :

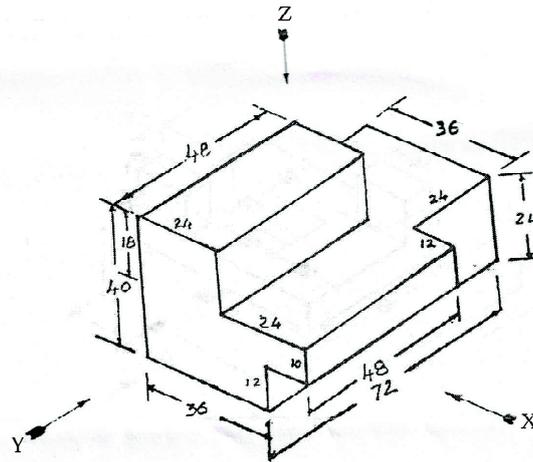
(a) Length of the major axis is 100 mm

(b) Length of the minor axis is 100 mm

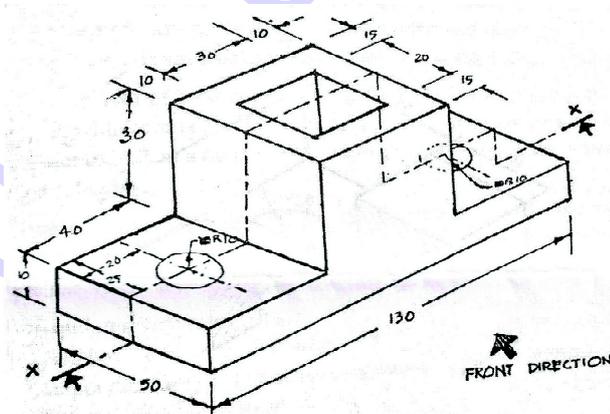
6. A square prism 40 mm base side and height 60 mm is standing vertically on its square base being one of its rectangular faces making an angle of  $60^\circ$  with VP. Draw its projections.

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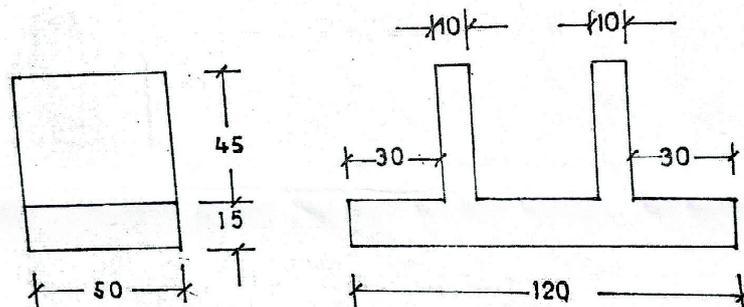
7. Draw the following views of the following :
- Front view in the direction of X
  - Left-hand side view in the direction of Y
  - Top view in the direction of Z



8. Draw the sectional front view and top view for the object shown below :

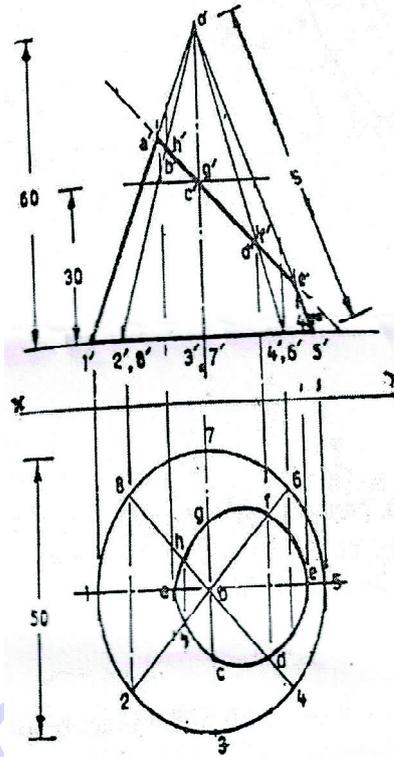


9. Draw the isometric view of steps, two views are shown in figure below :



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10. Draw the total development of a truncated cone as shown in figure :



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