



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**

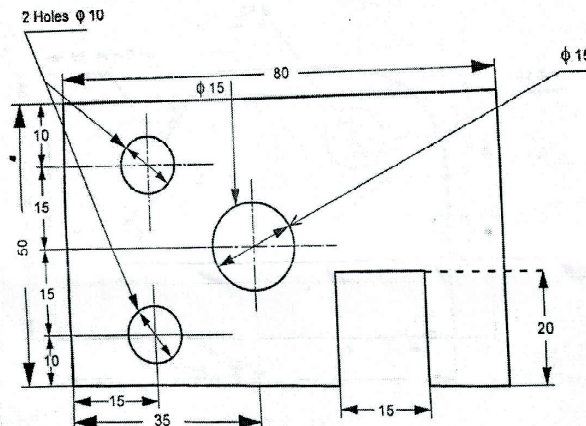
5×4=20

- 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 :

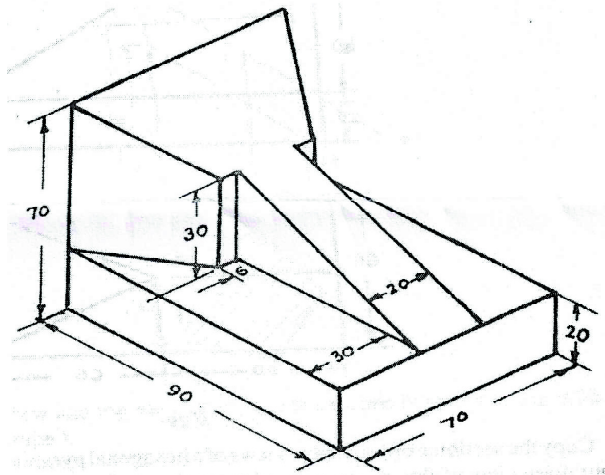
**STRENGTHEN THE MORAL VALUES**

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



\*

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.

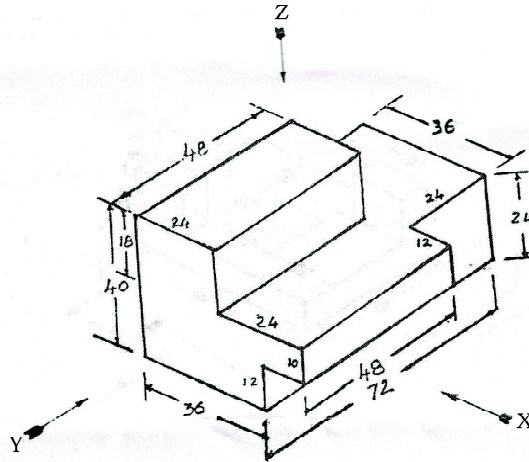
\*

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.

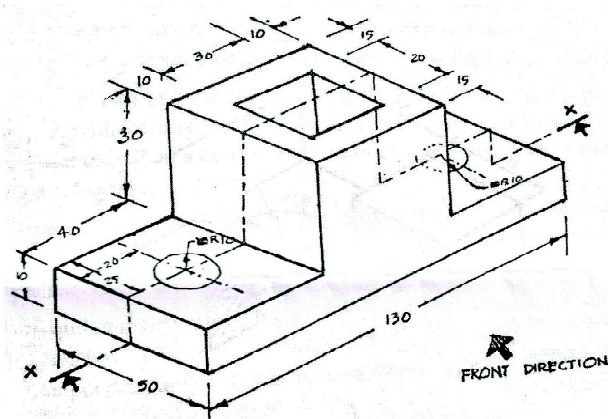
\*

\*

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

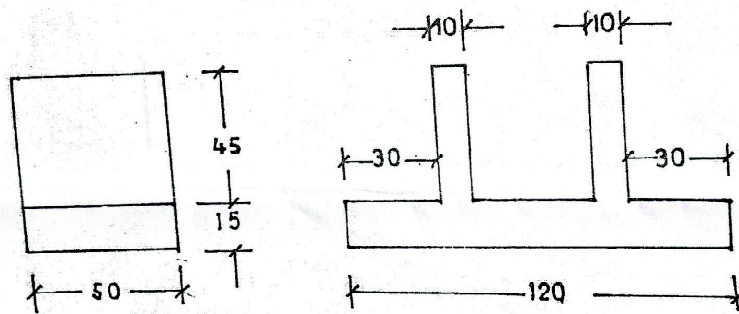


8. Draw the sectional front view and top view for the object shown below :



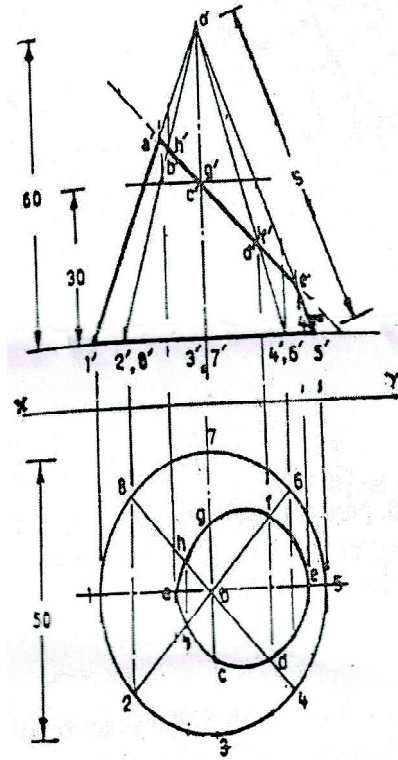
\*

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



\*

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



\*\*\*

\*