



C14-A/BM/CH/CHST/AEI/
MNG/MET/IT/TT/PCT **107**
4005

BOARD DIPLOMA EXAMINATION, (C-14)
OCT/NOV—2015
FIRST YEAR (COMMON) EXAMINATION
ENGINEERING DRAWING

Time : 3 hours]

[Total Marks : 60

PART—A

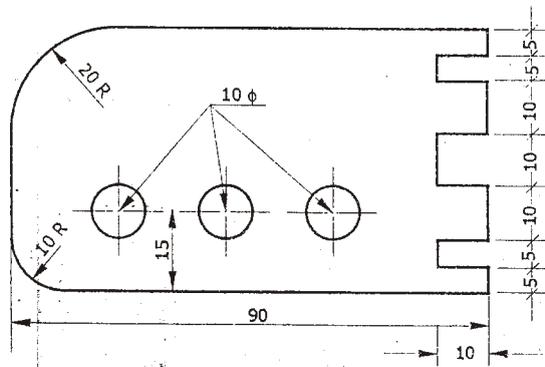
5×4=20

- Instructions :** (1) Answer **all** questions.
(2) Each question carries **five** marks.
(3) All dimensions are in mm.

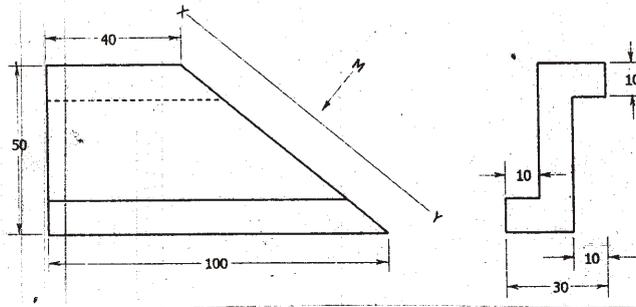
1. Print the following in single-stroke 14 mm size vertical lettering :

ANDHRA PRADESH

2. Redraw the following adopting the recommendations of SP-46 : 1988



- * 3. Inscribe regular hexagon in a circle of 80 mm diameter.
4. Draw the auxiliary view of the slopping surface of the object shown in figure below :



PART—B

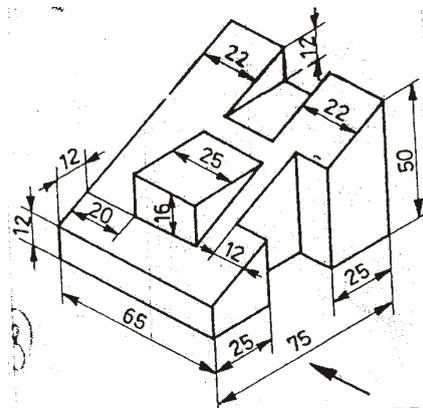
10×4=40

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

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

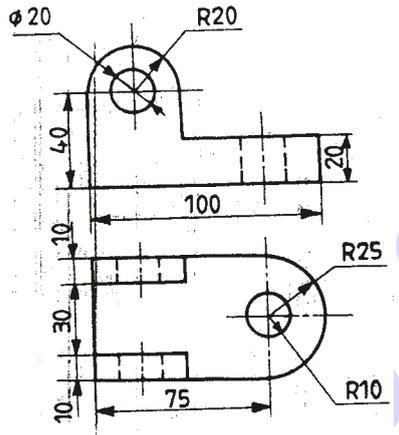
(3) All dimensions are in mm.

5. Construct a hyperbola, with the distance between the focus and the directrix as 50 mm and eccentricity as $3/2$. Also draw the tangent to the curve at a point 30 mm from directrix.
6. Draw the projections of a hexagonal pyramid with side of base 30 and axis 70 long which is resting with a slant face on HP such that the axis is parallel to VP. Follow the change of position method.
7. Draw the front view, top view and left side view of the following object in first angle projection :



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8. A cone of diameter 60 mm and height 70 mm is resting on its base. It is cut by a section plane perpendicular to VP inclined at 45° to HP and cutting the axis at a point 40 mm from the bottom. Draw the front view, sectional top view and true shape of the section.
9. The orthographic views are given below. Draw its isometric view.



10. A cone of base diameter 40 and slant height is standing vertically on HP. It is cut by a plane which is inclined at 45° to HP, perpendicular to VP passing through the midpoint of the axis. Develop the lateral surface of frustum.

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