C09–A/AEI/BM/C/CM/CH/CHPP/CHPC/
CHOT/CHST/EC/EE/IT/MET/M/
MNG/PET/TT/RAC-107

3005

BOARD DIPLOMA EXAMINATION, (C–09)
OCT/NOV—2018
FIRST YEAR (COMMON) EXAMINATION

ENGINEERING DRAWING

Time : 3 hours]   [*Total Marks* : 60

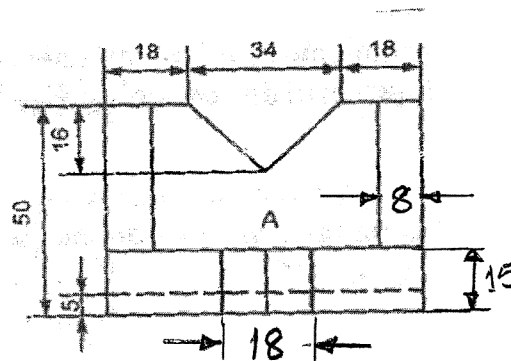**PART—A**   4×5=20

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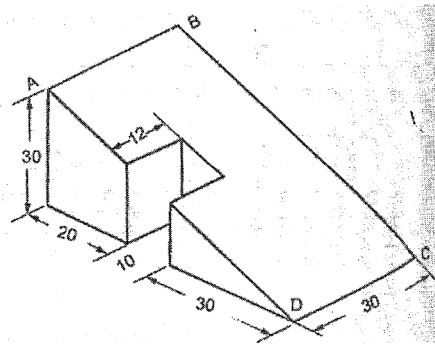(3) All dimensions are in mm.

1. Print following in single stroke vertical capital lettering of 10mm size as per SP: 46-1988 "GOVERNMENT OF ANDHARA PRADESH"

2. Redraw the following figure in unidirectional system of dimensioning.

3. A ball thrown from the ground level reaches a maximum height of 8m and travels a horizantal distance of 16m from the point of projection . Trace the path of the ball (Parabola)

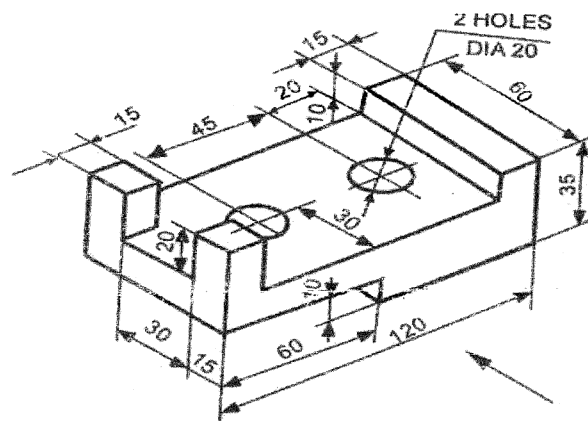**4.** Draw the auxiliary view of the inclined surface of the object shown below.

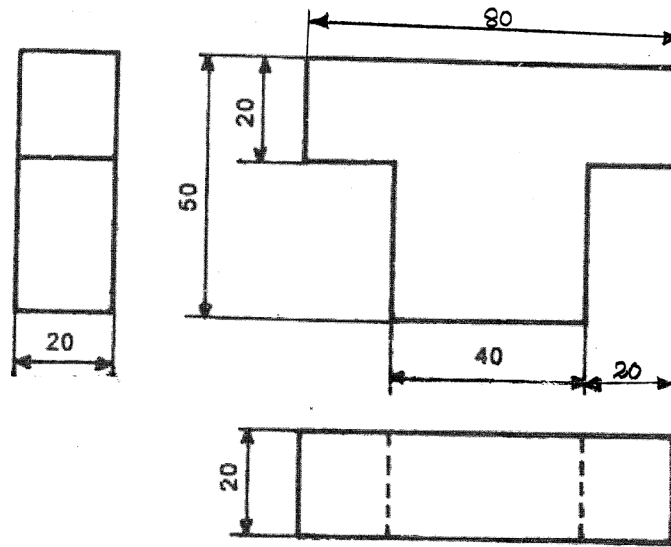<div align="center">

PART–B   4×10=40

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

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

(3) All dimensions are in mm.

5. A circular coin of 50mm diameter rolls on a straight horizontal table without slipping. A point on the circumference of the coin is in contact with the table surface in the beginning and after one complete revolution . Draw the cycloidal path traced by the point.

6. A pentagonal prism, with side of bass 30mm and axis 70mm long, lies with one of its rectangular faces on H.P and axis inclined at 45⁰ to V.P. Draw the projections of the prism.

7. Draw the front view, top view and left side view of the following object.

8. A Hexagonal prismhas a face on the HP and the axis parallel to VP. It is cut by vertical section plane, the plane of which makes an angle of 45⁰ with VP and cut the axis at a point 20mm from one of its ends. Draw its sectional front view and true shape of section. The side of the base 25mm long, height 65mm.

/3005   2   [*Contd...*

9. Draw the isometric view of the object whose orthographic views are given below.

10. A pentagonal prism of side of base 20mm and height 50mm, stands vertically on its base with a rectangular face perpendicular to V.P.A cutting plane perpendicular to V.P and inclined at 60° to the axis, passes through the edge of the top base of the prism. develop the lower portion of the lateral surface of the prism.