* 3005 *

C09–A–107/C09–AEI–107/C09–BM–107/
C09–CH–107/C09–CHST–107/C09–FW–107/
C09–IT–107/C09–MET–107/C09–MNG–107/

C09–PKG–107/C09–TT–107

3005

BOARD DIPLOMA EXAMINATION, (C–09)

MARCH/APRIL—2014

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 capital letters of size 10 mm as per SP:46-1988 :

    "DEPARTMENT OF TECHNICAL EDUCATION"

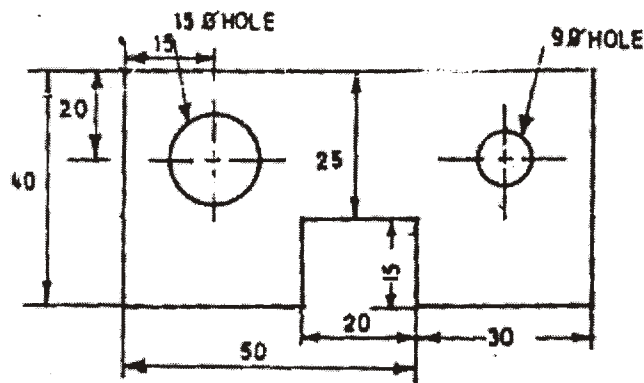2. Redraw and given the dimensions to Fig. 1 as per SP:46-1998 :

Fig. 1

3. Draw the front, top views of the block shown below, viewing at in the isometric view as shown in Fig. 2 :

Fig. 2

4. Draw the auxiliary view of the inclined surface shown in Fig. 3 :

Fig. 3

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

5. Draw a helix of pitch 60 mm on a cylinder of diameter of 50 mm.

6. The pictorial view of an object is given below (Fig. 4). Draw the orthographic projection shown by the arrow heads :
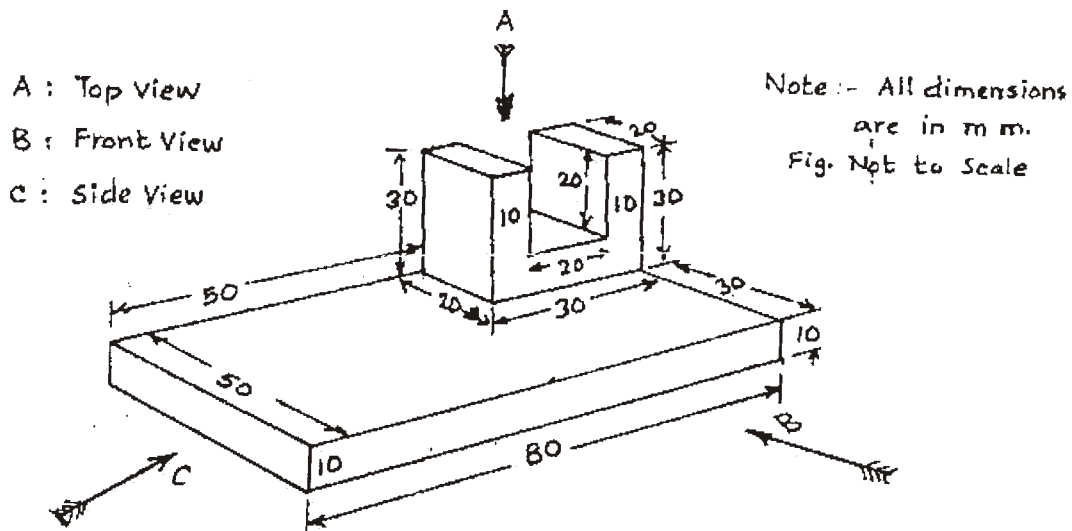

Fig. 4

7. Draw the projections of a cylinder of diameter of base 50 mm and height 80 mm when its axis is making an angle of 30° to the HP and parallel to VP.

8. A regular hexagonal pyramid of side 30 mm and height 65 mm is resting on its base on HP. One of its base side is parallel to VP. It is cut by a cutting plane, which is parallel to HP and perpendicular to VP and passing through a height of 45 mm from its bottom. Draw its sectional front view and top view.

9. Draw the isometric view of the model of steps, two views of which are shown in Fig. 5 :
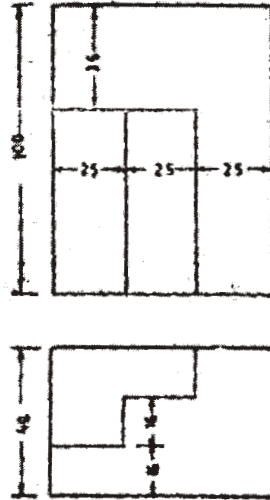

Fig. 5

10. Draw the development of a surface of a right hexagonal pyramid with 30 mm base side, 60 mm length of axis.

★ ★ ★