* 3005 *

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

FW-107/PKG-107/C09–PET–107/C09–TT–107/C09–RAC–107

3005

BOARD DIPLOMA EXAMINATION, (C–09)

APRIL/MAY—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) Take suitable scale whenever required.
(4) All dimensions are in mm.

1. Print the following line in 10 mm size single stroke vertical capital lettering :

"WORK IS WORSHIP"

2. Redraw the following as shown in Fig. 1 below and dimension it properly as per SP:46-1988 :

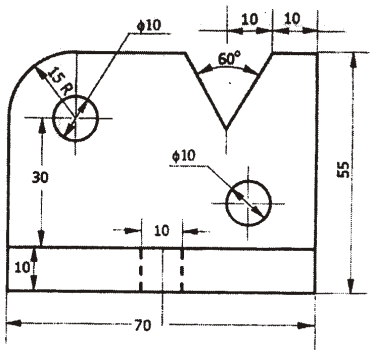

Fig. 1

3. Draw the auxiliary view for the inclined surface of the given object as shown in Fig. 2 :

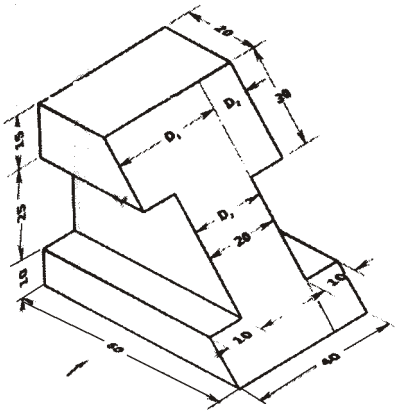

Fig. 2

4. Draw the front view of the following pictorial drawing in first angle as shown in Fig. 3 :

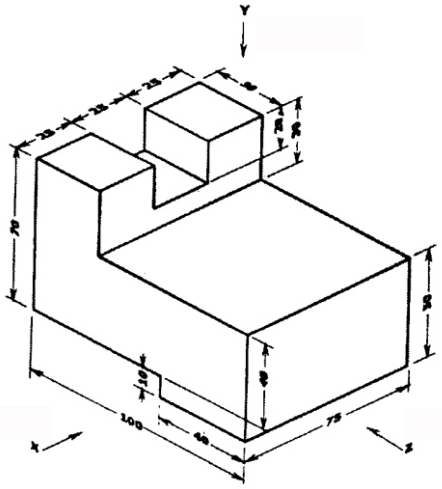

Fig. 3

PART—B

10×4=40

Instructions : (1) Answer *any* **four** questions.
(2) Each question carries **ten** marks.
(3) Take suitable scale whenever required.
(4) All dimensions are in mm.
(5) Use first angle projection.

5. Draw an involute on a circle of radius of 20 mm.

6. The surface of a pentagon of side 40 mm is parallel and 25 mm in front of the VP. One of its sides makes an angle of 30° with HP. Draw its projection.

7. Draw isometric view of the block whose orthographic views are shown in Fig. 4 :

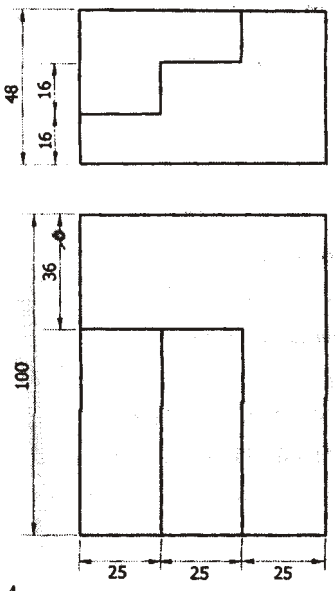

Fig. 4

8. A cylinder of base diameter 40 mm and height 60 mm rests on its base on HP. A plane perpendicular to VP and inclined to 30° to HP cuts it through a point 30 mm from base on the axis. Draw the front view, top view and true shape of section.

9. Draw the front view, top view and right side view of the following object as shown in Fig. 5 :

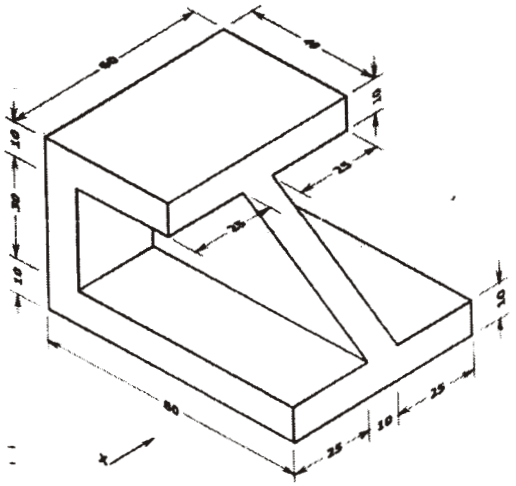

Fig. 5

10. Draw the development of the funnel in elevation as shown in Fig. 6 :

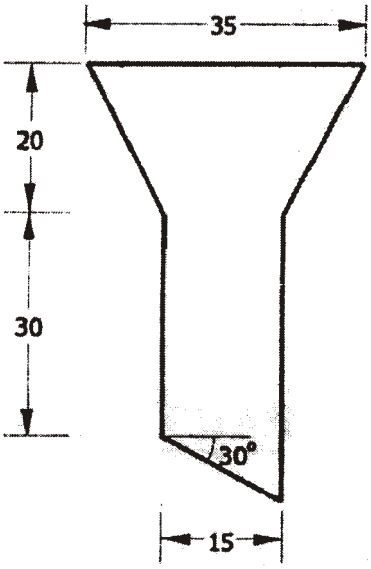

Fig. 6

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