

ENGINEERING DRAWING - I

Time : 3.00 Hours]

[Maximum Marks : 60

[Minimum Marks : 20

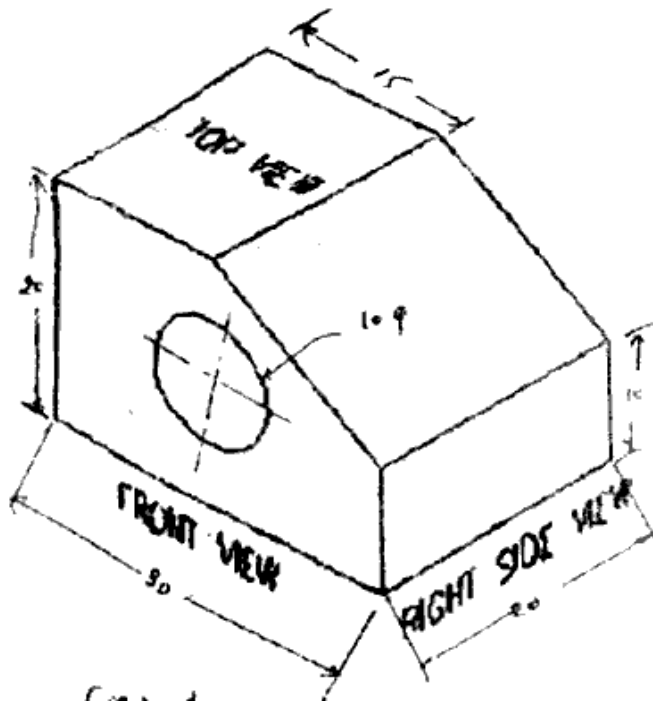
NOTES :

- i) Attempt four questions in all Question no. 1 is compulsory.
- ii) Students are advised to specially check the Numerical Data of question paper in both versions. If there is any difference in Hindi Translation of any question, the students should answer the question according to the English version.
- iii) Use of Pager and Mobile Phone by the students is not allowed.
- iv) Assume suitable dimensions wherever not given.
- v) Use both sides of the drawing sheet, if necessary.

Q.1) Figure. I shows the isometric view of an object. Draw to a suitable scale the following views in the third angle projection giving dimensions.

- a) Front view
- b) Right side view
- c) Top view

(Note : Hidden parts if any should be shown with dotted lines)



Q.2) a) Write neatly free hand the following sentence in single stroke italic capital letters of height 10mm.

"HARD WORK IS THE KEY TO SUCCESS"

b) Give the symbols of the following as per Indian standards:

- i) Counter sunk holes
- ii) Glass
- iii) Wood grams
- iv) Brick
- v) Buzzer
- vi) Section line
- Vii) Third angle projection

Q.3) On a map, the distance between two points is 14 cm. The real distance between them is 20km. Draw the diagonal scale of this map to read km and hectometers and to measure upto 25km Show a distance of 17.6 km on this scale.

Q.4) A line AB 60mm has its end A in VP and 20mm above H.P. The line is kept incline at 45° to H.P. and 30° to V.P. Draw the projections of line AB.

Q.5) Answer any two parts of the following:

a) Construct a regular hexagon of side 30mm by any one method.

b) The height of a cone of dia. 35mm in 70mm. Draw its isometric view when its axis is to be in honzenta position. <https://www.bteuonline.com>

c) How dimensioning is done on the following, show it on simple line diagrams ?

i) Arc

ii) Chamfered surfaces

iii) Counter bored boles

iv) Angles

Q.6) A regular pentagon of 30mm sides is resting on H.P. on one of its side with its surface 45° inclined to Draw its projections when the side in H.P. make 30° angle with V.P.