

S.B. Roll No.....

ENGINEERING DRAWING-I
1st Exam/Common/2655/Nov'18

Duration: 3Hrs.

M.Marks:100

SECTION-A

Q1. Do as directed.

10x1.5=15

- a. HB pencil is used for _____
- b. Full size scale is indicated as _____
- c. In second quadrant, front view and top view _____ each other.
- d. Drawing board is made of hard wood.(T/F)
- e. The isometric view of a circle is an _____
- f. Length of the arrowhead is _____ times the thickness of the line.
- g. A hidden object is shown by _____ line.
- h. An isometric projection is reduced in the ratio of _____
- i. In 7:4 ratio letterings the height is taken as _____ units.
- j. The ratio of drawing to the object is called _____

SECTION-B

Q2. Attempt any five questions.

5x7=35

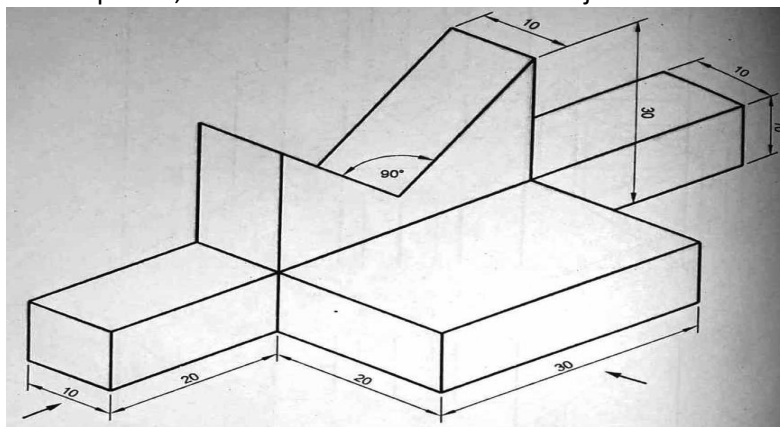
- i. Draw the conventional representation of following lines: Centre line, Hidden line, Cutting plane line, long break line, Continuous thick line.
- ii. Differentiate between first angle projection and third angle projection.
- iii. Rewrite the following in free hand vertical upright printing and take height of letters 10mm:
"GROW MORE TREES"
- iv. A point Q is 45mm away from H.P and 20mm away from V.P. Draw its projections in all quadrants.
- v. Draw a plain scale to read metres and long enough to measure 80 meters. R.F=1/500. Show on it distances of 78m.
- vi. Draw the Isometric projection of a square prism 40mm side and 60mm height.
- vii. Draw an Isometric scale and show on it the conversion of true length into isometric length.

SECTION-C

Q3. Attempt any two questions.

2x25=50

- a. A cube of side 30mm rests axially on a cylinder of 60mm diameter and 30mm height. Draw its isometric view.
- b. Draw top view, front view and side view of an object as shown in figure:



- c. The distance between two stations is 600 km. It is represented on a railway map by a line of 15cm long. Construct a diagonal scale to measure single kilometer and find its R.F. Indicate a distance of 356 km.