

ENGINEERING DRAWING-I

1st Exam/Mech/Prod/Chem/ECE/LT_FLT/PT/Auto/TT_TD/KT_TP/Marine/EEE/ECE(II)/
T&DM/Aero/Food/2655/0551/5405/May'17

Duration: 3 Hrs

M. Marks: 100

SECTION-A

Q1. Fill in the blanks.

10x1.5=15

- a. Ais generally drawn without the help of engineering instruments.
- b. Centre lines are generally(thin/thick)
- c. Section lines are drawn atdegrees to the horizontal.
- d. In 5:4 ratio lettering the width is taken asunits.
- e. Gothic lettering has all the alphabets and numerals of.....thickness.
- f. The symbol \emptyset (phi) is written before the dimension of
- g. In first angle projection front view istop view. (above/below)
- h. Surfaces can be identified both in orthographic andviews.
- i. Thin sections are shown entirely
- j. An isometric view is drawn in the ratio of.....

SECTION-B

Q2. Attempt any five questions.

5x7=35

- i. What is difference between orthographic view and pictorial view?
- ii. Draw symbols of third angle and first angle projection.
- iii. What is the purpose of scales in engineering drawing? What is a full size scale, enlarging scale and reducing scale?
- iv. How a sectional view is obtained? What is a sectional plane
- v. What is difference between sectional view and half sectional view? How much part of the object is assumed to be removed?
- vi. Print in single stroke vertical letters in height 28 mm in 7:4 ratio.
"ELECTION COMMISSION OF INDIA"
- vii. What is an isometric scale? What is its purpose?

Contd..

SECTION-C

Attempt any two questions.

2x25=50

Q3. Figure 1 shows pictorial view of an object. Draw to a full size scale, the following views in third angle projection.

1. Front View
2. Top View Outside.
3. Right side View.

Q4. The distance between Delhi and Amritsar is 500 Km and it is represented on a certain map by a line 2.5 cm long. Find the R.F. of the scale. Draw a scale showing single kilometer.

Indicate the following distances on the map: i) 473 Km ii) 336 Km

Q5. A sphere of 20 mm radius is resting axially on a cylindrical plate of 40 mm thickness and 60 mm diameter. Draw isometric projections.

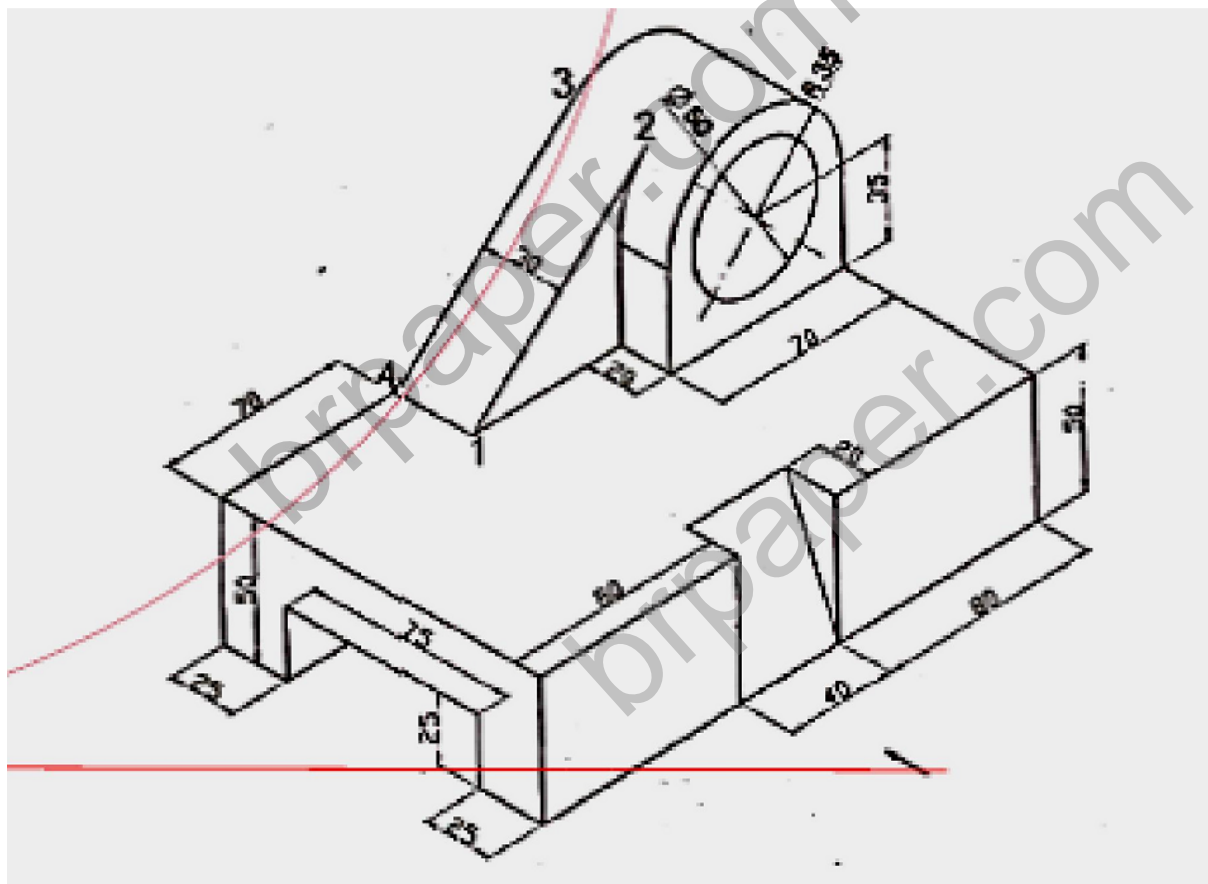


Figure-1