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S.B. Roll No....

# ENGINEERING DRAWING-I 1st Exam/2655/0551/5405/Common/May'18

Duration: 3Hrs. M.Marks:100

### **SECTION-A**

Q1. Fill in the blanks. 10x1.5=15

- a. The ratio of drawing to the object is called .........
- b. Front view is projected on .....
- c. Length of the scale = .....x Maximum length to be shown on a scale.
- d. In first angle projection top view is below .....
- e. For the identification of surfaces ...... projections must be drawn.
- f. Section lines are drawn at an angle of .....
- g. An isometric view shows ...... Surfaces of the objects.
- h. A plane which is at right angle to two principal planes is ..........
- i. Plain scale represents ...... Units.
- j. Front view lies above H.P. in ...... Quadrant.

### **SECTION-B**

## Q2. Attempt any five questions.

5x7=35

- i. What is RF and how it is calculated? What are Plain Scales?
- ii. Draw a plain scale to show metres and decimeters when 1 metre is represented by 2.5 centimetres. The scale should be long enough to measure upto 5 metres. Mark a distance of 4 metres and 3 decimeters on the scale.
- iii. Write in freehand vertical lettering the following sentence taking size 10 mm.

### "I AM PROUD OF MY COUNTRY"

- iv. What is the difference between third angle and first angle projection?
- v. Give conventional representation of different types of lines.
- vi. A point L is placed in first Quadrant. It is 60 mm above H.P. and 20 mm in front of V.P. draw its projections.

### **SECTION-C**

### Q3. Attempt any two questions.

2x25=50

- a. **Figure 1** shows pictorial view of a block. Draw front, side and top views in full size in first angle projection.
- b. Draw the isometric view of a cube 40 mm side and on a square block 25 mm thickness and 70 mm side. The cube and block are placed axially with their edges parallel to each other.
- c. **Figure 2** shows an isometric view of an object. Draw to a full size scale the following views in First angle projection method. i) Sectional Front view ii) Sectional side view iii) Top view

