

ENGINEERING DRAWING-I
1st Exam/Civil/ECE/7152/Dec'22
(For 2018 Batch Onwards))

Duration: 4Hrs.

M.Marks:100

SECTION-A

Q1. a) Fill in the blanks.

15x1=15

- i. The hidden object is shown by _____Line.
- ii. The front view of an object is shown in _____Plane.
- iii. The object of identifying a surface of an object is to develop the_____
- iv. Isometric projections are drawn by using the _____scale.
- v. The ratio of drawing to the object is called _____
- vi. _____grade pencil is used for drawing object lines.
- vii. In third angle projection top view is above_____
- viii. Section lines are generally drawn at an angle of _____To the horizontal.
- ix. Isometric view is basically a _____View.
- x. 1 metre =10_____

b) State True or False.

- xi. Mainly there is only one type of thick line.
- xii. There is no difference between isometric view and isometric projections.
- xiii. A scale representing three units is called a diagonal scale.
- xiv. The pictorial views are only of one type.
- xv. A circle can be divided into six equal parts with a compass.

SECTION-B

Q2. Attempt any five questions.

5x7=35

- a. Print in single stroke vertical letters in height of 28mm in 7:4 ratio.
"PUNJAB TECHNICAL UNIVERSITY"
- b. Differentiate between first angle and third angle projection.
- c. Draw the symbols representing Earth, Centre line, Wood, Glass and liquids.
- d. The distance between two stations is 600km. It is represented on a railway map by a line 15cm long. Construct a diagonal scale to measure single kilometer and find its R.F. Indicate a distance of 356km.
- e. Explain the difference between isometric projection and isometric view.
- f. Draw the plan and elevation of a line 40mm long which is parallel to V.P. 15mm in front of it and inclined at 45° to the H.P. The left end is 15mm above it.
- g. What are the types of dimensioning?

SECTION-C

Q3. Attempt any two questions.

2x25=50

- i. **Fig.1** shows Block pictorial view of an object. Draw front view, top view and side view in first angle projections.
- ii. Draw the isometric view of a cube 40mm side and on a square block 25mm thickness and 70mm side. The cube and block are axially with their edges parallel to each other.
- iii. **Fig.-2** Show isometric view of a support. Draw top view, front view and side view of the following object in first angle projection.

