Total No. of printed pages = 6

RETEST EXAMINATION - 2019

Semester : 1st (Old)

Subject Code : Me-101

ENGINEERING DRAWING

Full Marks – 100

Time – Four hours

The figures in the margin indicate full marks for the questions.

PART – A

Marks – 25

Answer *all* the following questions :

1. Fill in the blanks : 1×10=10

   (a) Drawing is the language of _____.

   (b) Tee square is used to draw _____ line.

   (c) RF = $\frac{\text{.....}}{\text{.....}}$.

   (d) A plain scale is used to read _____ units but diagonal scale is used to read _____ unit.

[Turn over

(e) A hidden edge is shown by _____ and observed edge is shown by _____ line.

(f) _____ and _____ lines are drawn with set squares.

2. State true or false : 1×10=10

(a) Top view of an object is called plan.

(b) Section of an object shows the external part of the object only.

(c) The dimensions, length and height of the object are obtained in elevation.

(d) Diagonal scale can read up to 5 units.

(e) RF is used in case of construction of scale.

(f) Drawing is a communication skill.

(g) Solid geometry has two dimensions.

(h) Compass are used to draw circles only.

(i) French curve is used to draw irregular curves.

(j) Minimum width of border is 15 cm.

3. Choose the correct one : 1×5=5

(i) Information zone have following

(a) Name of student

(b) Name of institution

(c) Title of the chapter

(d) All of the above

(ii) Lettering is freehand

(a) Drawing

(b) Not writing

(c) Both of the above

(d) None of the above

(iii) Continuous arrow line indicates

(a) Construction line (b) Dimension line

(c) Guide line (d) All of these

(iv) Vertical letters are preferred for

(a) Easy execution (b) Fast Execution

(c) Both of the above (d) None of these

(v) The one interior angle of regular hexagon is

(a) 120° (b) 108°

(c) 115° (d) 110°

PART – B

Marks – 75

Answer *all* the following questions :

4. (a) Construct a plain scale with RF 1 : 200 to measure up to distance 30 m. measure 22 m on your scale. 7+8=15

(b) Construct a diagonal scale of RF = 1 : 50 and to measure up to 7 m. Measure a distance of 5.45 m on the scale.

5. Draw the projection of the following : $2^1/_2 \times 6 = 15$

(a) A point is 30 mm above HP and 45 mm in front of VP. Draw the top view and front view.

(b) A point is on HP and 50 mm in front of VP.

(c) A point is on VP and 50 mm above HP.

(d) 25 mm above HP and 40 mm behind VP.

(e) 30 mm bellow HP And 40 mm in front of VP.

(f) 25 mm in front of VP and on HP.

6. Draw the projection of the following : 3+3+3+6=15

(a) A line PQ 40 mm long parallel to VP and inclined at 30° to HP. The lower end P is 15 mm above HP and 20 mm in front of VP.

(b) A line PQ 50 mm long parallel to HP and inclined at 45° to VP. P is 20 mm above VP and 20 mm in front of VP.

(c) AB is 30 mm long is on HP and inclined at 45° to VP. A is 10 mm in front of VP.

(d) A line AB 50 mm long is inclined at 30° to HP and 45° to VP. A is 20 mm above HP and 30 mm in front of VP.

7. Answer the following : 3×5=15

(a) Construct the angles 45° and 60°.

(b) Construct an equilateral triangle with sides 60 mm.

(c) Construct a regular hexagon of side 40 mm.

(d) Construct a regular pentagon of side 40 mm.

(e) Draw the bisector of a line of length 80 mm.

8. (a) Draw the projection of a Pentagonal Prism of side of base 30 mm and axis is 60 mm resting with base on HP and its one of the rectangular faces is parallel to the and 10 mm in front of the VP.

(b) A cone of base 40 mm diameter and axis is 50 mm long touches VP on a point of its base circle, its axis is inclined at 300 to VP and parallel to HP. Draw the projection.

(c) Draw a double reveted double cover butt joint showing plan and sectional elevation.

5×3=15