S.B. Roll No.....................................

ENGINEERING DRAWING-I
1st Exam/Civil/Electrical/Aerospace/2655/0551/5405/ MAY-16

Duration: 3 Hrs   **M. Marks: 100**

Note: Section-A is compulsory.

SECTION-A

Q.1 Fill in the blanks.   **10x1.5=15**

a. The purpose of sectioning is to show the......................details of an object.
b. A cutting plane is also known as ………..
c. In ....angle projection top view is placed above the front view.
d. The front view of an object is always projected on.................plane.
e. In the ....quadrant, point is situated above the HP and in front of VP.
f. Length of scale = R F *.........
g. Scale X:1 is ....scale.
h. In lettering size of letters is described by their.........
i. An off-set section is similar to ....
j. The main types of scales are …………and ………...

SECTION-B

Q.2 Attempt any five questions.   **5x7=35**

a. Draw the conventions for steel, zinc, Glass, Water, Wood, Concrete, Brass.
b. What is sectioning and why it is required?
c. What is orthographic projection and how it is obtained?
d. Explain with the help of sketches Chain Dimensioning and Parallel Dimensioning.
e. What is difference between pictorial and orthographic projection?
f. Construct a plane scale of RF 1/40 to show meters and decimeters and long enough to measure 8 meters. Show a distance of 6 meters and 4 decimeters on this scale.
g. Write in freehand vertical lettering the following sentence taking size 8 mm
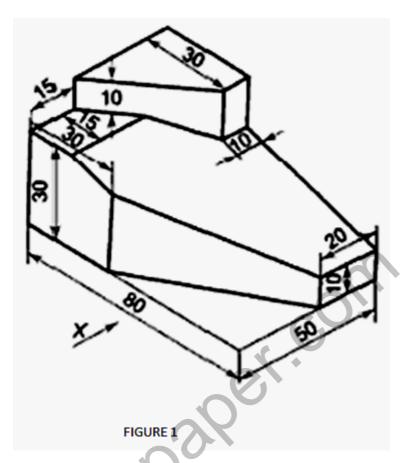h. "TIME IS GREAT HEALER".
i. What is RF and how it is calculated?

SECTION-C

Q.3 Attempt any two questions.   **2x25=50**

I) Figure 1 shows pictorial view of an object. Draw to a full size scale, the following views in third angle projection.
1. Front View looking in the direction of arrowhead X
2. Top View Outside.
3. Right side View.

II) Figure 2 shows pictorial view of an object in which various surfaces are marked by different alphabets. Identify and mark various surfaces in orthographic views.

III) A regular cone of dia 40 mm and height 55mm placed centrally on a square block of size 50 mm×50mm×10mm thick. The axis of both objects are vertical and co-axial. Draw the isometric projection of the solid.
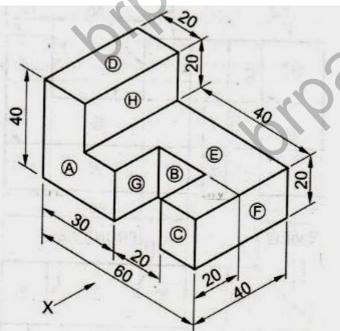
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FIGURE 1

FIGURE 2