

ENGINEERING DRAWING-I

1st Exam/Mech/Prod/Chem/ECE/ETV/PT/Auto/KT/TP/EEE/ECEII/T&DM/Aeronautical/2655/0551/Nov'17
Duration: 3Hrs. M.Marks:100

Note:- Attempt any two questions from Section A and two questions from Section B .

Each question carries equal marks.

25x4=100

SECTION-A

- Q1.** Draw the convention of the following material in section as per BIS specification: Wood, Glass, Concrete and Steel.
- Q2.** Write the following in free hand single stroke vertical capital letter using the ratio 7:4 and Height 12 mm.

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- Q3.** Construct a diagonal scale of R.F.=1/32 to read meters, decimeters and centimeters and long enough to measure up to 4 meters. Show on this scale the distance of 3.45 meters.
- Q4.** What are different methods of dimensioning in engineering drawing? Explain them with suitable examples.

SECTION-B

- Q5.** A line AB, 75 mm long, has its end A, 20 mm above the H.P. and 15 mm in front of the V.P. The line is inclined to both the reference planes i.e. H.P. and V.P. The line is inclined 30° to the H.P. and 45° to the V.P. Draw its projections, find its True Length.
- Q6.** A right circular cone of base dia 30 mm and height 40 mm rests centrally on a square block of 50 mm sides and 20 mm thickness. Draw the isometric view of two solids.
- Q7.** **Figure 1** shows the pictorial view of an object. Using 1st angle orthographic projection, draw its following orthographic views :-
(a) Front view- Looking from the direction of arrow
(b) Top view
(c) Left side view.
- Q8.** **Figure 2** shows the pictorial view of an object in which various surfaces are marked by different alphabets. Using 1st angle projection method, draw its orthographic views and also identify the mark corresponding surfaces of the pictorial view on the orthographic views.

