COURSE CODE : MEC103

COURSE NAME : ENGINEERING GRAPHICS

Time Allowed: 01:30 hrs ***Max. Marks: 50***

1. This paper contains 4 questions divided in two parts.
2. All questions are compulsory.
3. The marks assigned to each questions are shown at the end of each question in square brackets.
4. Attempt either (a) OR (b) from each question of Part B.
5. Answer all questions in serial order.
6. Do not write anything on the question paper except your registration number at the designated space.

PART A

Q1(a) What is the principle of diagonal scale? [2.5 Marks]

(b) What is gothic and roman lettering? [2.5 Marks]

PART B

Q2(a) Construct a plain scale of RF = 1/100 to read metres and decimetres and long enough to measure 5 metres. Show a distance of 3.6 metres on it. [15 Marks]

OR

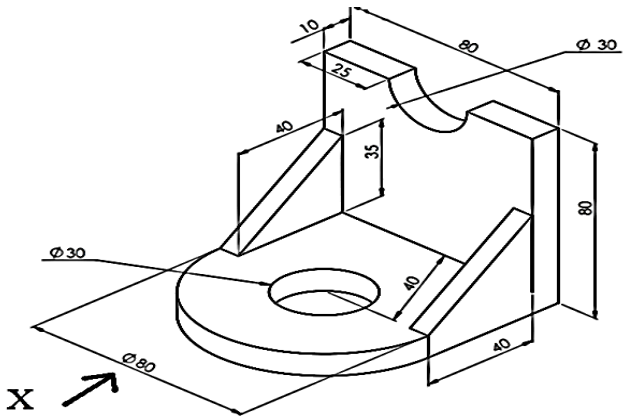
(b) Construct a diagonal scale of RF = 2/125 and LC of 1 centimetre which can measure upto 4 metres. Show the length of 3.11 metres on it . [15 Marks]

Q3(a) A line AB, 70 mm long, is inclined at 30^0 to HP and 40^0 to VP. Its end A is 20 mm above HP and 15 mm infront of VP. Draw its projections. [15 Marks]

OR

(b) A triangular thin plate of 40 mm sides is inclined at 45^0 to the VP and perpendicular to the HP. Draw the projections of the plate if one of its sides AB is inclined at 45^0 to the HP with the corner A nearer to the HP and 10 mm above the HP. [15 Marks]

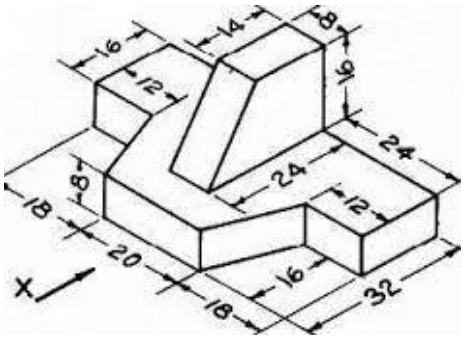
Q4(a) Draw a front view, top view and side view in third angle projection.



[15 Marks]

OR

(b) Draw a front view, top view and side view in third angle projection.



[15 Marks]

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