BACHELOR OF TECHNOLOGY (C.B.C.S.) (2021-COURSE)

B. Tech. Sem - II E&C :SUMMER- 2022

SUBJECT : COMPUTER AIDED GRAPHICS

Day : Wednesday | Time : 10:00 AM-01:00 PM

Date : 3/8/2022 | **S-24091-2022** | Max. Marks : 60

N.B :

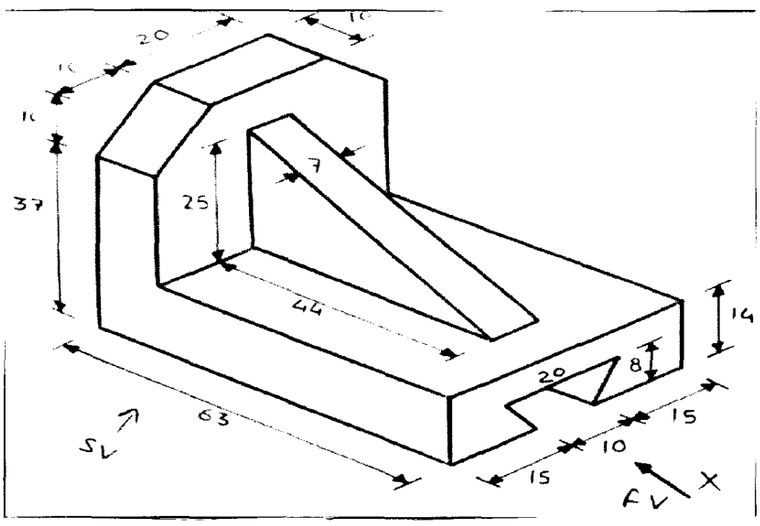
1) All questions are **COMPULSORY**.
2) Figures to the right indicate **FULL** marks.
3) Use of non-programmable **CALCULATOR** is allowed.
4) Draw neat and labeled diagram **WHEREVER** necessary.
5) Assume suitable data if necessary.

Q.1 Draw ellipse with major axis are 100 mm and 60 mm respectively using concentric circle method. **[10]**

OR

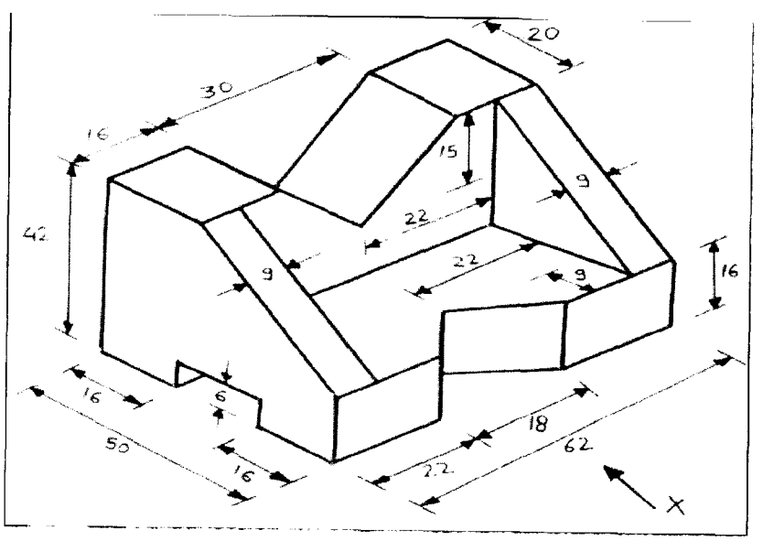
Q.1 Draw Archimedean spiral of 1 convolution for a radius of 60 mm. **[10]**

Q.2 Draw Front view, Top view and side view of following object. **[10]**



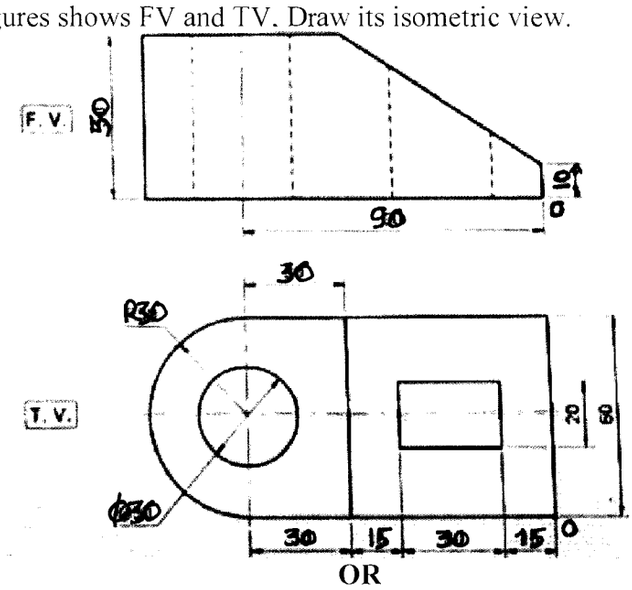
OR

Q.2 Draw Front view, Top view and side view of following object. **[10]**



P.T.O.

Q.3 Figures shows FV and TV, Draw its isometric view. **[10]**



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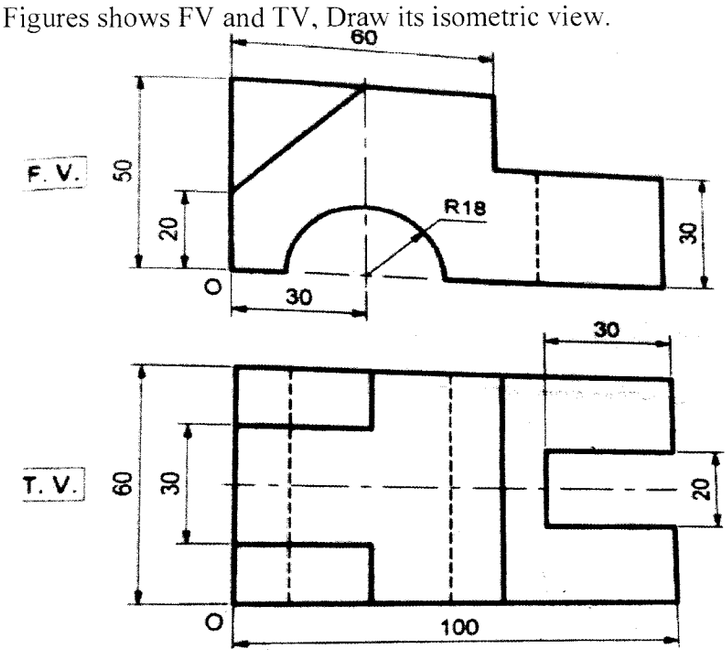
Q.3 Figures shows FV and TV, Draw its isometric view. **[10]**



Q.4 A line AB 60 mm long is inclined at 30 degree to VP. Its end point A is on HP and 30 mm in front of VP. End B is 30 mm above HP. Draw projection of line AB and locate its traces. **[10]**

OR

Q.4 A regular hexagon of 20 mm side is placed on its corner in ground and it's surface 30 degree inclined to HP. Draw it's projections when the side nearer to XY is 25 degree able with TOP view. Also find another corner above distance from HP, Reduced top view distance. **[10]**

Q.5 A square prism, side of base 40 mm and height 70 mm is kept on the HP. On one of its base edge in such that its axis makes 60-degree inclination to HP. Draw projection of Prism when Top view of the axis makes 45 degree to reference line.

OR

Q.5 A cylinder of base diameter 60 mm and axis length 80 mm is kept on the VP on a point of its base circle, such that its axis is inclined to VP at 30 degree and parallel to HP. Draw the projection of the cylinder.

P.T.O.

Q.6 A cylinder of base diameter 50 mm and axis 70 mm is resting on ground with its axis vertical. It is cut by a section plane perpendicular to the V.P., inclined at 45^0 to the H.P. passing through the top of a generator and cuts all the other generators. Draw the development of its lateral surface.

OR

Q.6 A cone of base diameter 50 mm and axis 60 mm is resting on its base on the H.P. A section plane perpendicular to V.P. and inclined at 45^0 to H.P. bisects the axis of the cone. Draw the development of its lateral surface.

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