Total No. of Questions : 8]

SEAT No. :

P3925

[Total No. of Pages : 3

[6001]-4010

F.E.

ENGINEERING GRAPHICS

(2019 Pattern) (Semester - I/II) (102012)

Time :2½ Hours] *[Max. Marks : 50*

Instructions to the candidates:

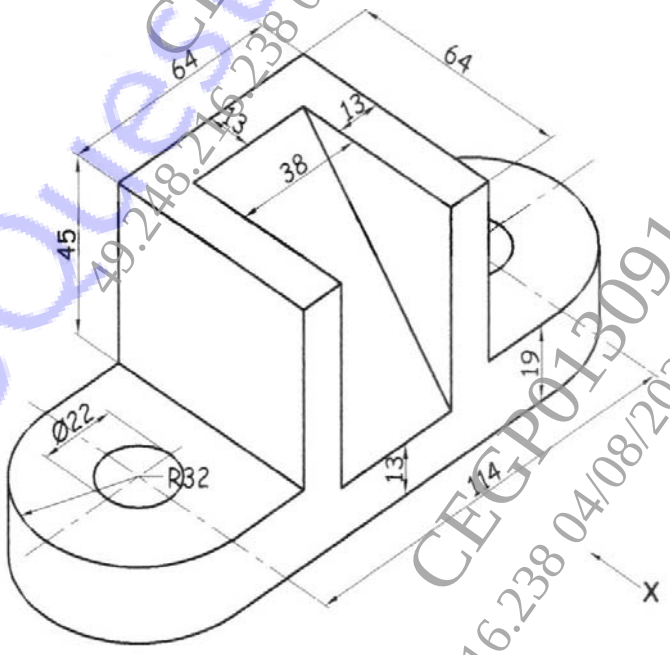
1) ***Solve Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8.***
2) ***Assume suitable data, if necessary.***
3) ***Retain all the construction lines.***

Q1) Draw an ellipse by rectangular method if the major axis and minor axis are 160 mm and 100 mm respectively. **[8]**

OR

Q2) Draw a cycloid of a rolling circle of diameter 40 mm. Assume the point 'P' is away from the base. **[8]**

Q3) Figures shows a pictorial view of an ojbect. By using first angle method of projection draw, Front View in the direction of X, Top View and Left-Hand Side View. Give dimensions in all views. **[16]**



OR

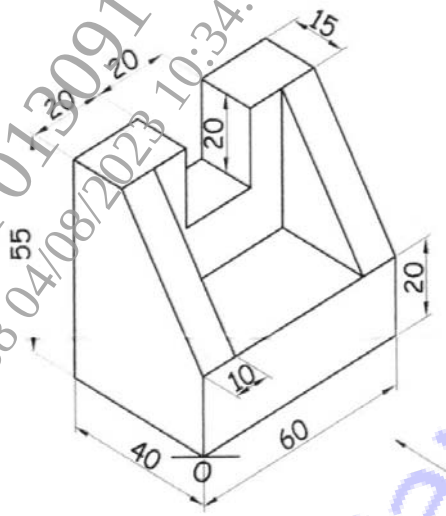
P.T.O.

Q4) Figure shows the pictorial view of an object. By first angle method of projection draw: **[16]**

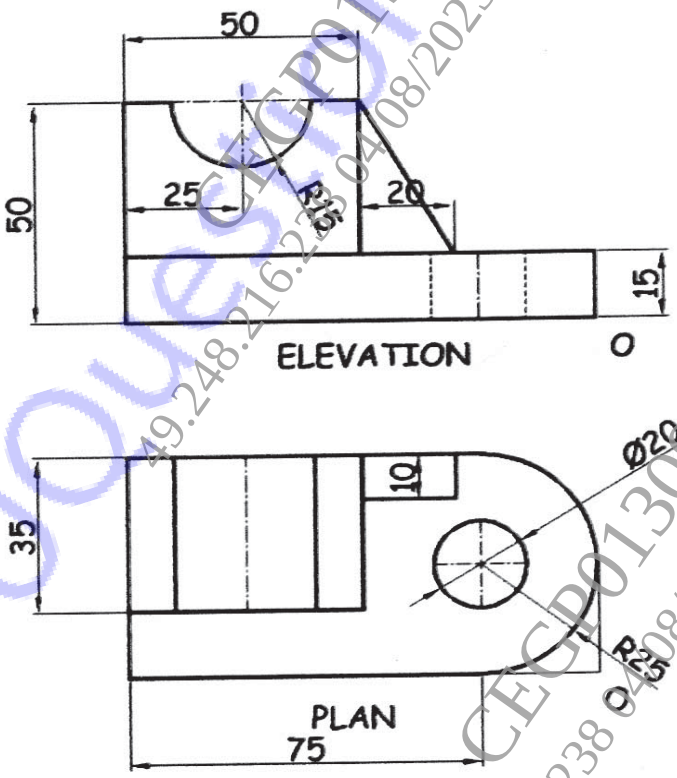
a) Front View in the X direction

b) Top View

c) Sectional Left-Hand Side View along symmetry of the object.

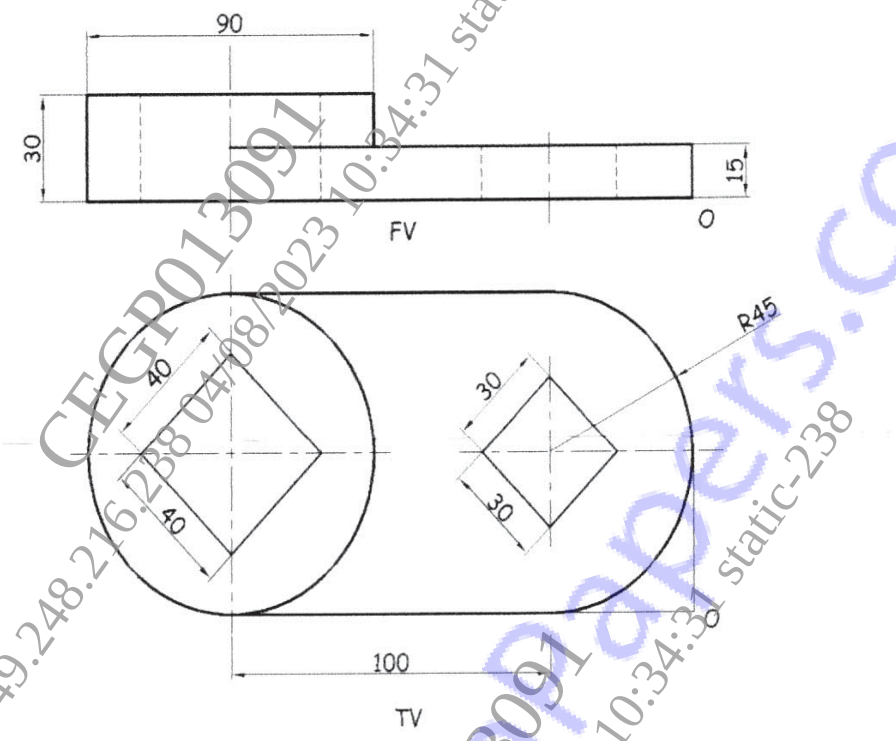


Q5) Figure show orthographic views of an object by first angle method of projection. Draw its isometric view and give all the dimensions. **[16]**



OR

Q6) Figure show orthographic views of an object by first angle method of projection. Draw its isometric view and give all the dimensions. **[16]**



Q7) A hexagonal pyramid of base 30 mm and axis and axis height 75 mm is resting on H.P. with side of the base parallel to V.P. It is cut by a section plane, perpendicular to V.P. and inclined at 45° to H.P. and bisecting axis of the pyramid. Draw the development of lateral surfaces of the pyramid. **[10]**

OR

Q8) A pentagonal prism side of base 30 mm and axis 60 mm long is kept on HP in such a way that one of its base edges is parallel to the VP and near to the observer. A cutting plane bisects its axis at 45°. Draw the development of lateral surfaces the pentagonal prism. **[10]**