DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE – RAIGAD -402 103

Summer Semester Supplementary Examination – 2019

Branch: All **Sem.: I/II**

Subject: Engineering Graphics (ME104/ME204)

Marks: 60 **Date: 12/06/2019** **Time: 4 Hr.**

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Instructions to the Students

1. Each question carries 12 marks.
2. Attempt **any five** questions out of the following six questions.
3. Illustrate your answers with neat sketches, diagram etc., wherever necessary.
4. If some part or parameter is noticed to be missing, you may appropriately assume it and should mention it clearly

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(Marks)

Q. 1 Attempt the following **(2*6 = 12)**

a. Draw a regular octagon of side 30 mm

b. Draw centre line, outline and locus line.

Q. 2 Draw the following views of the object shown in fig 1 (first angle projection) **(12)**

a. Front view **(6)** **b.** Top view **(6)**

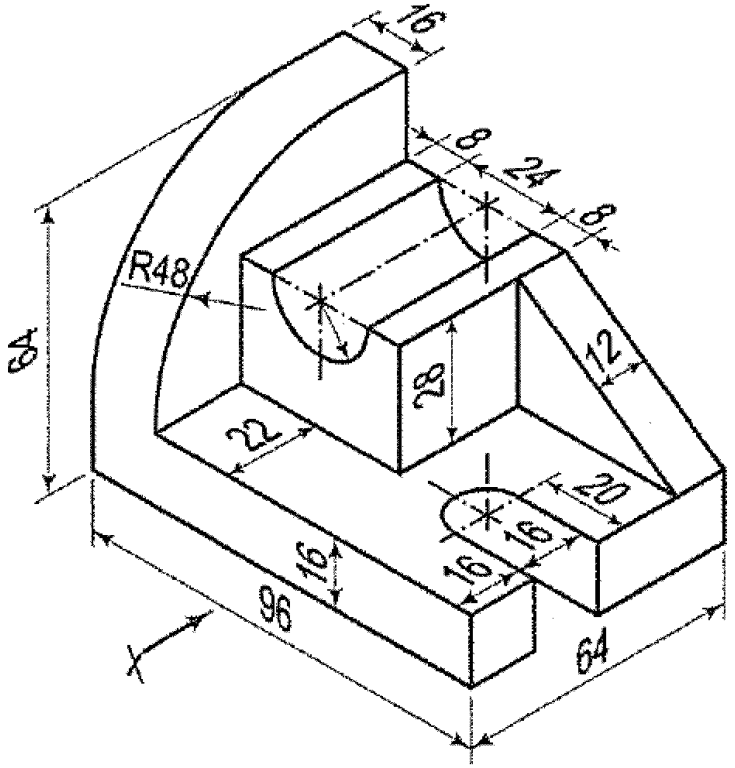


Fig. 1

Q. 3 Attempt **any one** of the following **(12)**

A line AB, 90 mm long, is inclined at 30^0 to the HP. Its end A is 12 mm above the HP and 20 mm in front of VP. Its front view measures 65 mm. Draw the TV of line AB and find its true inclination with the VP.

OR

Draw the projections of a circle of 50 mm diameter resting in the HP on a point A on the circumference, its plane inclined at 45^0 to the HP and the top view of the diameter AB making 30^0 angle with the VP.

Q.4 A pentagonal prism is resting on one of the corners of its base on the HP. The longer edge containing that corner is inclined at 45^0 to the HP. The axis of the prism makes an angle of 30^0 to the VP. Draw the projections of the solid. **(12)**

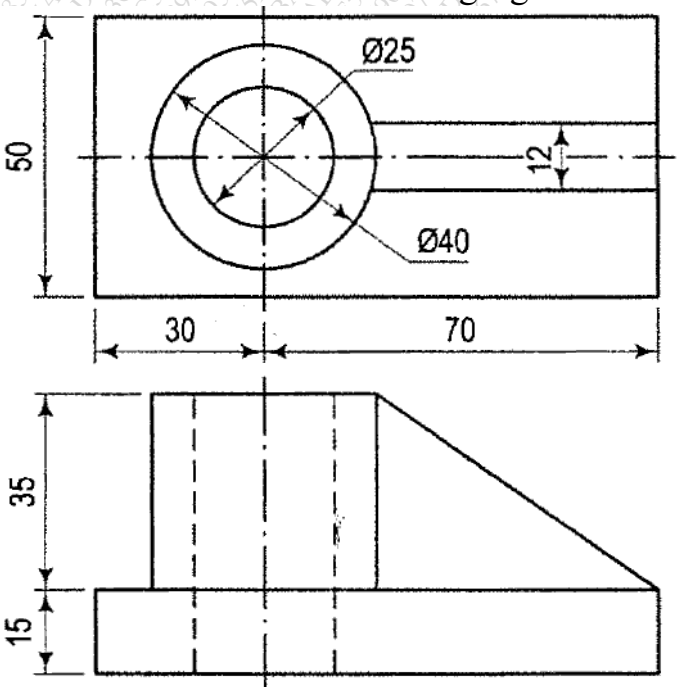
Q.5 Attempt **any one** of the following **(12)**

A square prism, base 40 mm side, axis 80 mm long, has its base on the H.P. and its faces equally inclined to the V.P. It is cut by a plane, perpendicular to the V.P., inclined at 60° to the H.P. and passing through a point on the axis, 55 mm above the H.P. Draw its front view and sectional top view.

OR

Draw the development of hexagonal pyramid of edge 30 mm and length of axis 70 mm, resting on H. P.

Q.6 Draw the isometric view of the object whose orthographic views are shown as per **third angle projections** method in the following figure. **(12)**



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