Seat No.

Total No. of Pages : 4

MAR_APR 2025 SUMMER EXAMINATION

11731 Bachelor of Technology (NEP-2.0)

Sub. Name: Engineering Graphics

Sub. Code: 108719/109818

Day and Date: SEPTEMBER,12-09-2025 **Total Marks: 60**

Time: 10:30 AM To 01:30 PM

Instructions:
1. **All questions are compulsory**
2. **Assume suitable data wherever necessary and mention it boldly**
3. **Drawings must be drawn to the given scale**
4. **Figures to the right indicate full marks**
5. **Use of Scientific calculator is allowed**

Q1) Solve any Three **[15]**

a. Line AB 75 mm long, inclined at 55° to the HP and parallel to VP. Its end A is at 35 mm from both planes, draw its projections. **[5]**

b. A Pentagonal plane with a 30 mm side has an edge on the HP, the surface of the Plane is inclined at 45° to the HP. Draw its Projections. **[5]**

c. A cylinder of base diameter 60 mm and axis length 95 mm is resting on one of the point on circumference of a base on HP such that its axis is inclined at 45° to the HP, draw its projections **[5]**

d. A circle of 50 mm diameter rolls along a straight line without slipping. Draw the locus *of* point P on the circumference of the circle for one complete revolution. Name *the curve*. **[5]**

Q2) Solve any one **[20]**

a. Draw the front view, top view and side view of the given three dimensional object. **[20]**

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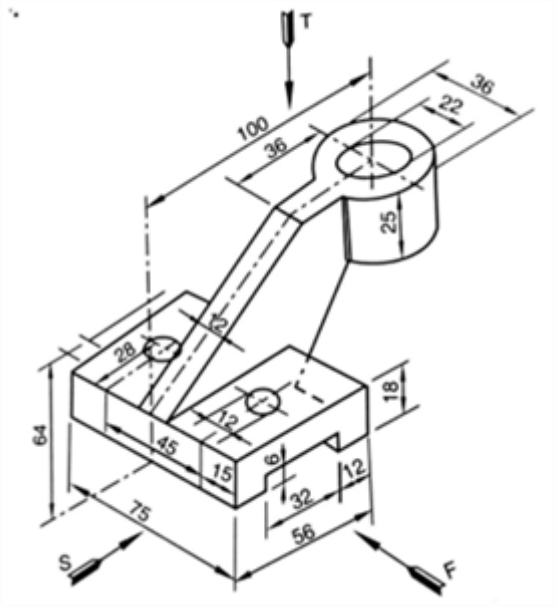
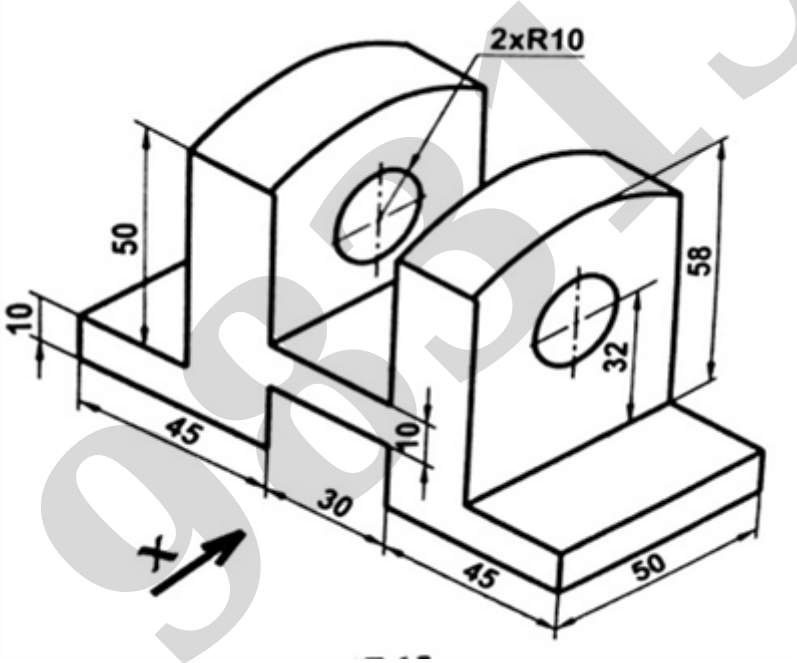


b. Draw the front view, top view and side view of the given three dimensional object. The object is viewed from X direction **[20]**



Q3) Solve any one **[13]**

a. Draw isometric view from the given two dimensional views.

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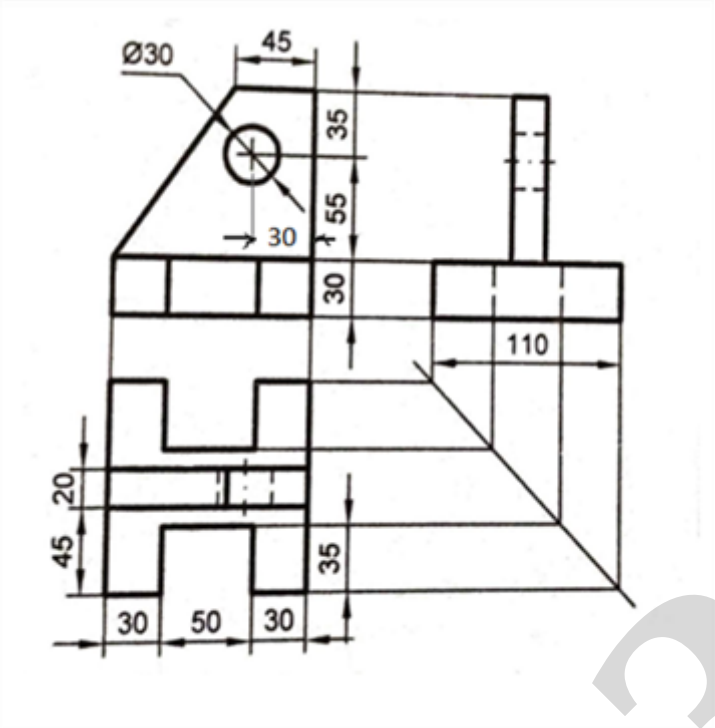
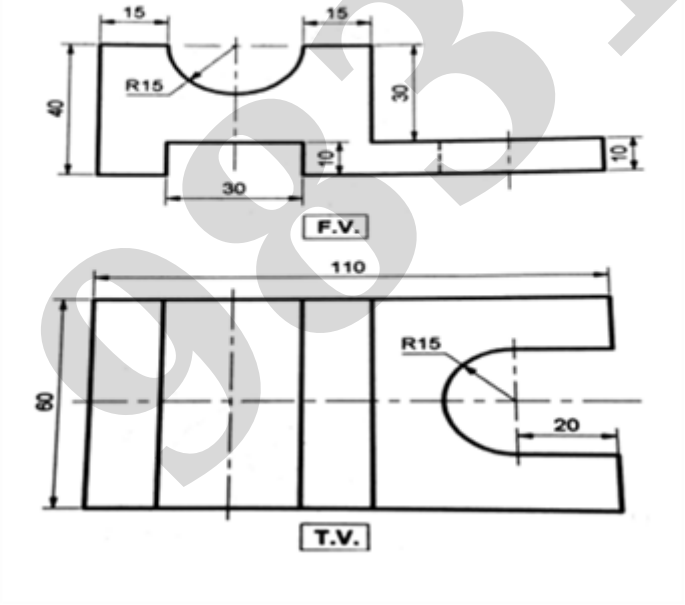


b. Draw isometric view from the given two dimensional views.



Q4) Solve **[12]**

A cone of base diameter 70 mm and axis length 120 mm is resting on HP. It is cut by an auxiliary inclined plane inclined at 35° to the HP and cuts the axis at a distance of 50 mm from the apex. Develop the lateral surface of cone.

End Of Question Paper

Important Note for Chief Exam Officer / SRPD Coordinator / Sr Supervisor/ Student -
This Question Paper may be distributed for following Subjects as common code.

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सदरची प्रश्नपत्रिका खालील विषयांकरिता वितरित करता येईल.

1] (11731) Bachelor of Technology (NEP-2.0) (108719) Engineering Graphics Part 1 SEM 1

2] (11731) Bachelor of Technology (NEP-2.0) (109818) Engineering Graphics Part 1 SEM 2

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