MID-TERM EXAMINATION

Question Paper 2024-25

NCERT BASED SYLLABUS

FOR CBSE AND STATE BOARD
FOLLOWING NCERT

Mid Term Exam Question Paper 2024-25

Name : .....

Roll NO. : .....

Date : 25.09.2024 **MIDTERM EXAMINATION 2024** Time : 3 Hrs.

Class : XI **SUBJECT : ENGINEERING GRAPHICS** M.M. : 70

General Instructions :

(i) Use both side of drawing sheet if necessary.
(ii) All dimensions are in mm.
(iii) Missing and mismatching dimension if any may be suitably assumed.
(iv) Follow the SP: 46-2003 revised codes with first angle method of projection.

1. Write any five types of lines with their application and symbolic representation. **(05)**

2. (a) Construct a triangle given the altitude = 55 mm and two base angles = 40° and 65°. **(05)**

   (b) Construct a quadrilateral with AB = 45 mm, BC = 55 mm, CD = 40 mm, AD = 60 mm, AC = 70mm **(05)**

3. (a) Construct a regular Octagon of side 25 mm. **(05)**

   (b) Draw a regular hexagon of side = 55 mm. Inscribe a circle in it. **(05)**

4. Draw an external common tangent to two non-intersecting and unequal circles, with their radii as R 25 mm and R 15 mm when their centres are 60 mm apart. **(05)**

5. Draw the projections of a point 20 mm from V.P and 30mm from H.P., assuming it to be located in all for quadrants by turn. **(06)**

6. Draw the projections of a line ST 70 mm long in following positions.
   (a) Parallel to and 20 mm below the H.P. and in the V.P. **(03)**

   (b) Parallel to and 35 mm behind of the V.P. and in the H.P. **(03)**

   (c) Perpendicular to the V.P., 25 mm above the H.P. and its one end in the V.P. **(03)**

   (d) Perpendicular to H.P., 15 mm infront of V.P. and its one end 10 mm above the H.P. **(03)**

   (e) Inclined at 60° to the V.P. and parallel to H.P. its one end 30 mm below the H.P., and 20 mm infront of V.P. **(03)**

   (f) Inclined at 35° to the H.P. and its one end 25 mm above it; parallel to and 20 mm infront of V.P. **(03)**

7.(i) A pentagonal plate of 30 mm long edges is resting on one of its edge on H.P. Draw its front view, top view and side view if its plane is perpendicular H.P. and V.P. **(06)**

7.(ii) Draw the front view and top view of a circular plate of diameter 60mm resting on H.P. such that the plate is perpendicular to V.P. and inclined at 45° to H.P., if the centre is 40 mm infront of V.P. **(10)**

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