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312311 - Engineering Drawing (Sem II)

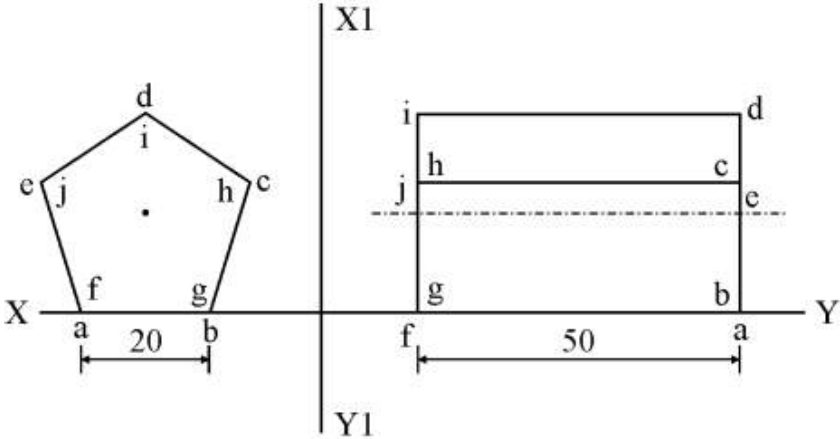
**As per MSBTE's K Scheme**

**ME / AE / MK / PG**

Unit III		Projection of Solids	Marks - 14	
S. N.	MSBTE Board Asked Questions	Exam Year	Marks	
1.	A square pyramid 40 mm side of base and axis length 60 mm is kept on HP on a corner of its base, such that its axis makes an angle of 30° to the HP and parallel to VP. Draw the projections .	W-23	4M	
2.	A pentagonal prism side of base 25 mm and axis 65 mm long rests with one of the edges of its base on the HP. Its axis is inclined at 30° to the HP and parallel to VP. Draw its projections.	W-23	4M	
3.	Draw the projection of cone base 50 mm diameter and axis 55 mm long when it is resting on the HP on a point of its base circle with axis inclined at 30° to the HP and parallel to VP.	W-23	8M	
4.	A pentagonal prism, side of base 25 mm and axis 65 mm long rests with one of the edges of its base on H.P. Its axis is inclined 30° to H.P. and parallel to V.P. Draw its projections.	S-23	4M	

5.	A tetrahedron of 60 mm long edges has one edge in the H.P. with that edge perpendicular to V.P. and the triangular face containing that edge is vertical. Draw three views.	S-23	4M
6.	A cone base diameter 50 mm and axis length 60 mm is kept on the V.P. on a point of its base circle in such a way that its apex is 50 mm in front of V.P. Draw the projection of the cone when elevation of axis is parallel to the XY line.	S-23	8M
7.	Define the following: (i) Tetrahedron (ii) Frustum of a cone	W-22	2M
8.	Cone base 50 mm diameter & Axis 55 mm long is resting on H.P. on a point of its base. Draw its projections, if base makes an angle of $30^\circ$ to the H.P. & axis parallel to V.P.	W-22	8M
9.	A pentagonal prism side of base 30 mm & axis length 60 mm is kept on H.P. on one of its base edges in such way that its base makes an angle of $60^\circ$ to H.P. & axis is parallel to V.P. Draw the projections.	W-22	8M
10.	A square pyramid of 40 mm side of base and axis length 60 mm is kept on HP on a corner of its base such that its axis makes an angle of $30^\circ$ to HP and parallel to VP. Draw the projections.	S-22	4M
11.	A tetrahedron of 60 mm length of edge is kept on HP on one of its edges in such a way that its axis makes an angle of $45^\circ$ with HP and parallel to VP. Draw its projection.	S-22	4M
12.	A cone diameter of base 60 mm and height 70 mm is suspended by a string attached to the mid point of any one of its generators. Draw the projections of the solid and find the inclination of the axis with HP. Consider axis parallel to VP.	S-22	8M

13.	Draw the projections of a cube of side 40 mm when it rests on the ground on one of its corners and a face containing that corner is inclined at $30^\circ$ to ground and perpendicular to VP.	W-19	4M
14.	A triangular prism, side of base 30 mm & height 60 mm lies with one of its longer edges on H.P., such that its axis is parallel to V.P. Draw its projections.	W-19	4M
15.	A square pyramid, side of base 40 mm, axis length 60 mm lying on the VP on one of its slant edge. Draw the projections of the pyramid when its axis is parallel to HP.	W-19	8M
16.	A pentagonal prism base 25 mm side and axis 60 mm long is standing on a corner of the base on H.P. with its axis inclined at $45^\circ$ to H.P. and parallel to V.P. Draw the projections.	S-19	4M
17.	A cone is lying on the H.P. on its curved surface with its axis parallel to V.P. What will be the top view of base? (i) Circle (ii) Square (iii) Ellipse	S-19	4M
18.	A right circular cone, base 50 mm diameter and axis 60 mm long, is resting on its apex on H.P. Draw the projection of cone, when the axis is parallel to V.P. and inclined at $45^\circ$ to H.P.	S-19	8M
19.	Draw the projection of cone having 40 mm base diameter and 60 mm axis lying on H.P. on one of its generator with axis parallel to V.P.	W-18	4M
20.	Draw projection of cylinder 50 mm dia. and 70 mm axis resting on its circumference in H.P. with axis inclined at $45^\circ$ to V.P. by auxiliary plane method.	W-18	4M

21.	<p>A pentagonal pyramid having side of base 30 mm and axis 65 mm long is resting in H.P. on one of its base corners. Draw its projections, if slant edge containing that corner makes an angle <math>45^\circ</math> to HP and its axis parallel to V.P.</p>	W-18	8M
22.	<p>Fig. shows front view and right hand side views of a regular pentagonal prism:  Add the top view (Use first angle method of projection)  State the positions of planes ABCDE and ABGF with respect to reference planes.</p> 	S-18	4M
23.	<p>A right circular cone of 40 mm diameter base and 60 mm axis length is resting on a point of its circumference on HP with axis inclined at <math>30^\circ</math> to HP and parallel to VP. What will be the shape of its front view, top view, right hand and left hand side views?</p>	S-18	4M
24.	<p>A pentagonal pyramid base 30 mm side and axis 60 mm long is standing on a corner of its base on HP. Draw its projections when the slant edge containing that corner makes an angle of <math>45^\circ</math> to HP with axis parallel to VP.</p>	S-18	8M

# Thank You

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