Unit II	Projection of Lines and Planes		Marks – 12
S. N.	**MSBTE Board Asked Questions**	**Exam Year**	**Marks**
1.	Top view of 80 mm long line CD measures 68 mm, while the length of its front view measures 54 mm. Its one end 'c' is in HP and 15 mm infront of VP. Draw the projections of line CD and determine its inclination with HP and VP.	W-23	4
2.	A circular plate of diameter 60 mm is kept on HP on a point of its circumference. The surface of circular plate makes an angle of 40° to the HP and perpendicular to VP. Draw three views.	W-23	4
3.	A square plate ABCD of side 50 mm rests on a corner 'A' on HP in such a way that its diagonal 'AC' makes an angle of 30° with the HP. Draw the projections of plate when diagonal BD is perpendicular to VP.	W-23	4
4.	The top view of 75 mm long line AB measures 65 mm while the length of its front is 50 mm. Its one end A is in the H.P. and 12 mm in front of V.P. Draw the projection of AB.	S-23	4
5.	A 30°-60° set square has its shortest edge 40 mm long in V.P. Its surface is perpendicular to H.P and inclined to V.P. such that its front view appears as an isosceles triangle. Draw its three view and determine its inclination with V.P.	S-23	4

6.	A circular plate of negligible thickness of 50 mm diameter resting on H.P. on one of its points of periphery. The surface of plate is perpendicular to V.P. and inclined to H.P. by 30°. Draw its projections.	S-23	4
7.	A line CD, 70 mm long has its one end C in the V.P. & other end D 15 mm above H.P. 50 mm in front of V.P. Draw the projections of lines when the sum of its inclination with H.P. & V.P. is 90°.	W-22	4
8.	A regular pentagonal plate has 25 mm side, has a central hole of 20 mm diameter. The plate is resting on its corners in H.P. with its surface perpendicular to V.P. & inclined at 45° to H.P. Draw its projections.	W-22	4
9.	A rectangular plate of sides 50 mm & 25 mm is hung from one of its corners. Draw the projections of plane.	W-22	4
10.	A line AB, 65 mm long is inclined to HP at an angle of 45º. Its end A is 15 mm above HP and 25 mm infront of VP. Line AB is contained by a vertical plane making an angle of 45º to VP. Draw the projections of line and find inclinations of the line with VP.	S-22	4
11.	An ellipse of major axis 70 mm is seen as a circle of 50 mm diameter in the top view. Find out its inclination with HP and also draw its side view.	S-22	4
12.	A pentagonal plate 40 mm side has its corner on the VP. The plate is inclined to VP in such a way that the elevation length of two sides is each 35 mm. One side is perpendicular to HP. Draw three views of the plate and find its inclination with VP.	S-22	4
13.	A line AP, 75 mm long has its end A in both HP & VP. It is inclined at an angle of 30º to HP & 45º to VP. Draw the projections.	W-19	4
14.	A hexagonal lamina of 24 mm side has its surface inclined at 30ºto HP and resting on one of its corner on HP. Draw its projections.	W-19	4

15.	A pentagonal lamina of 40 mm side has a circular hole of 35 mm diameter of its centre. It stands on one of its sides on VP with its plane perpendicular to HP, and 45ºinclined to VP. Draw the projection.	W-19	4
16.	Distance between end projectors A and B of line AB is 60 mm. End A of the line is 20 mm above H.P. and 40 mm infront of V.P. End B of the line is 50 mm above the H.P. and 40 mm infront of V.P. Draw the projection of line AB and find out inclination with H.P. and its true length.	S-19	4
17.	A circular plate of diameter 60 mm is kept on the H.P. on a point of its circumference. The surface of circular plate make an angle of 40° to H.P. and perpendicular to V.P. Draw three views.	S-19	4
18.	A 30° – 60° set square ABC has side AB equal to 70 mm. It is resting on the H.P. with AB perpendicular to V.P. and plane of set square inclined at 45° to H.P. & parallel to V.P. Draw the projections.	S-19	4
19.	The top view of 80 mm long line CD measures 68 mm, while the length of its F.V. measures 54 mm. Its one end C is in HP and 15 mm in front of VP. Draw projection of CD and determine its incination with HP& VP. Also locate traces of the line.	W-18	4
20.	A circular plate of 40 mm dia. is resting on point of circumference on H.P. The plane of plate is normal to V.P. and inclined at 45° to H.P. A central square hole of 15 mm side is cut centrally through it. Take all sides of hole equally inclined to V.P. Draw (i) FV (ii) Top view.	W-18	4
21.	A semi-circular plate of 60 mm dia. has a straight edge in the V.P. and perpendicular to H.P. The surface of plate is inclined at 30° to V.P. Draw the projections.	W-18	4

22.	Line 'AB' is 70 mm long. Its FV and TV measure 40 mm and 60 mm respectively. End 'A' is 15 mm above HP and 20 mm in front of V.P. Draw projections of line 'AB' if end 'B' is in first quadrant. Find angle with HP and VP.	S-18	4
23.	A circular plate of negligible thickness of 50 mm diameter is resting on HP on one of its points of circumference. The plate is perpendicular to VP and inclined to HP by 30º. Draw its projections.	S-18	4
24.	An isosceles triangle 'ABC' of base 'AB' 40 mm and altitude 70 mm has its base 'AB' in V.P. and perpendicular to HP. The triangle is inclined to VP so that front view obtained is an equilateral triangle. Draw the projections and find the inclination of plane with VP.	S-18	4

Thank You

https://shikshamentor.com/engineering-drawing-sem-ii-msbte-k-scheme/

Visit

https://shikshamentor.com/