

18MES101L- ENGINEERING GRAPHICS

MODEL EXAM

Answer ANY 5 Questions

(5x5=25)

1. Draw the locus of point P moving so that the ratio of the distance from a fixed point F to its distance from a fixed straight line DD' is $\frac{3}{4}$. Point F is at a distance of 70mm from DD'.
2. A line AB 80mm long has its end A 20mm above HP and 25mm in front of VP. The line is inclined at 45° to Hp and 35° to VP. Draw its Projections.
3. A hexagonal plate of side 30mm is resting on one of its sides on VP and inclined at 40° to HP. Its surface is inclined at 35° to VP. Draw its projections.
4. A cylinder of base diameter 50mm and axis length 70mm is resting on HP on a point on the circumference of the base with its axis inclined at 50° to HP and parallel to VP. Draw its projections.
5. A hexagonal pyramid side of base 30mm and altitude 70mm rests with its base on HP and with a side of base parallel to VP. It is cut by a cutting plane inclined at 35° to HP and perpendicular to VP and is bisecting the axis. Draw the sectional plan of the pyramid and the true shape of the section.
6. A pentagonal prism of base side 30mm and axis length 60mm is resting on HP on its base with a side of base parallel to VP. It is cut by a plane inclined at 35° to HP and perpendicular to VP and meets at a distance 35mm from the base. Draw the development of the lower portion of the prism.
7. Draw the projections of the following points on a common reference line. Take 30mm distance between the projectors.
A, 35mm above HP and 25mm in front of VP.
B, 40mm below HP and 15mm behind VP.
C, 50mm above HP and 25mm behind VP.
D, 45mm below HP and 20mm in front of VP.
E, 25mm below HP and 25mm in front of VP.
F, on both HP and VP.
8. A line AB 75mm long has its end A in both HP and VP. The line is kept inclined at 45° to HP and 30° to VP. Draw its projections.

-----ALL THE BEST-----