

Qn No	<p style="text-align: center;">BE110 ENGINEERING GRAPHICS – Model Question No.1</p> <p style="text-align: center;">Time : 2 Hours Maximum Marks : 50</p>	Marks
<p>Part A (Module 1)</p> <p>Answer any one question. Each question carries 11 marks</p> <p>1. A line CD of length 65 mm is inclined at 45° to HP and 30° to VP. The end D is 50 mm above HP and 45 mm in front of VP. Draw the projections of the line and locate its traces.[11 marks]</p> <p>2. Three vertical poles AB, CD, and EF are respectively 2m, 4m, and 8m long and standing on the floor. The ends B, D and F are on the floor and are on the corners of an equilateral triangle of side 5m. Determine the distances between the top ends of the poles, i.e., AC, CE and AE. Find also their inclinations to the floor. [11 marks]</p>		11
<p>Part B (Modules 2, 3, 5 &6)</p> <p>Answer any 3 questions. Each question carries 13 Marks each</p> <p>3. A pentagonal pyramid of base 30 mm and height 60 mm rests with one of its base edges on HP. The axis of the pyramid makes an angle of 45° with the HP. Draw its projections[13 marks]</p> <p>4. Figure shows the isometric view of a machine component with all the dimensions in mm. Draw its view from the front, the view from the top and the view from the right. Arrow indicates the direction to obtain the view from the front. [13 marks]</p>	<div style="text-align: center;"> </div> <p>5. A square pyramid with side of base 30 mm, and axis 50 mm long is resting on its base on HP with an edge of the base parallel to VP. It is cut by a section plane perpendicular to VP and inclined at 45° to HP. The section plane is passing through the midpoint of the axis. Draw the true shape of the section. Draw also the development of the surface of the retained solid [13 marks]</p> <p>6. A rectangular prism 25mm × 30mm side and 50mm long is lying on the ground plane on one of its rectangular faces in such a way that one of its square faces is parallel to and 10mm behind the picture plane. The central plane is 60mm away from the axis of the prism towards the left. Draw the perspective view of the prism if the station point is located 55mm in front of the picture plane and 40mm above the ground plane. The prism is resting on the ground plane on its 50mm × 25mm rectangular face. ? [13 marks]</p>	39

Qn No	BE110 ENGINEERING GRAPHICS – Model Question No.2 Time : 2 Hours Maximum Marks : 50	Marks
1.	<p>Part A (Module 1) Answer any one question. Each question carries 11 marks</p> <p>A line AB of length 70 mm is inclined at 30° to HP and 45° to VP. A point P on the line is at a distance of 30 mm from B and is 55 mm above HP and 60 mm in front of VP. Draw the projections of the line and mark its traces.[11 marks]</p>	11
2.	<p>One end of a pole 2 m long rests against a wall and the other end on top of a horizontal table which is 1 m high. The pole makes 40° with the table top and 26° with the wall. Draw the projections and find the height of the end which rests against the wall from the floor.[11 marks]</p> <p>Part B (Modules 2, 3, 5 &6) Answer any 3 questions. Each question carries 13 Marks each</p> <p>3. A square pyramid of base of side 30 mm height 60 mm rests with one of its base edges on HP. The axis of the pyramid makes an angle of 50° with HP. Draw its projections.[13 marks]</p> <p>4. A hexagonal prism of 20 mm base edges and axis 45 mm long has a through square hole of 16 mm sides. The axis of the hole coincides with the axis of the prism. Two lateral faces of the hole are parallel to that of the prism. Draw the isometric view of the solid when it is standing upright.[13 marks]</p> <p>5. A right circular cone of 40 mm diameter and 50 mm height is standing on its base on HP. The vertical trace of a section plane perpendicular to VP makes an angle of 45° with the reference line and intersects the axis of cone at a distance of 20 mm from the vertex. Draw the true shape of the section and the development of lower part of sectioned cone.[13 marks]</p> <p>6. A square prism of base side 60 mm rests on one of its ends on the HP with the base sides equally inclined to the VP. It is penetrated fully by another square prism of base side 45 mm with the base side equally inclined to the HP. The axes intersect at right angles. The axis of the penetrating prism is parallel to both the HP and the VP. Draw the projections of the prisms and show the lines of intersection. [13 marks]</p>	39

Note : - The answer book for Engg. Graphics is same as that will be used for other theory examinations. But it contains 6 pages with orthogonal grids and 2 pages with isometric grids. (see sample put in the website). Other pages are blank pages without any lines or grids. The students can use blank pages and/or grid pages according to their choice. The students can use scale, set squares, protractor, compasses and pencils for drawing. Mini drafter /T –square is not at all needed for the University examination. The important criterion for evaluation will be on understanding of the problems and applying the principles and methods to solve the problems. Accuracy is not important.