Total Number of Pages : 01

Roll No. .....

FIRST SEMESTER **B.Tech. (ALL)**

END SEMESTER EXAMINATION Nov - 2014

ME 119, ENGINEERING GRAPHICS

Time: 3 Hours ***Max. Marks : 70***

Note : (i) Attempt any *FOUR* questions.
(ii) Viva-voce is compulsory and carries 14 marks.
(iii) Assume suitable missing data, if any.

Q.1 A line AB, 80 mm long, has its end A in the HP and end B in the V.P. The line is inclined at 45° to HP and 30° to V.P. Draw its projections. Also show its traces. 14

Q.2 A regular pentagonal ABCDE lamina is of side 40 mm. It rests on one of its edges on H.P. Its surface makes an angle 45º with V.P. and 30º with H.P. Draw the plan and elevation of the lamina. 14

Q.3 A right hexagonal prism 45 mm high with each side of the base 30 mm is resting on one of the base edges on the H.P. inclined at 30° to V.P. and face containing that edge is inclined at 45° to the H.P. Draw the projections of hexagonal prism. 14

Q.4 A hexagonal prism, resting on H.P., with two of its vertical rectangular faces, parallel to V.P. It is sectioned by an oblique plane, inclined at 45° to the H.P., towards the left and passing through the centre of the top hexagonal face. Project the sectional top view and the true shape of its section. 14

Q.5 Draw the surface development of the pentagonal pyramid having base edges = 30 mm and height = 50 mm resting on its base with an edge of base parallel to V.P. A section plane cuts the pyramid at a point 30 mm from the base along the axis and makes an angle of 45° with the H.P. 14

Q.6 The following figure shows the Front view and top view of a frustum of the Cone. Draw the isometric view of frustum of cone. 14