

R09

Code No: 51015

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B .Tech I Year Examinations, December - 2018

ENGINEERING DRAWING

(Common to IT, AME)

Time: 3 hours

Max. Marks: 75

Answer any five questions

All questions carry equal marks

1. An area of 144 sq.cm on a map represents an area of 36 sq.km on a field. Find the scale factor for this map and construct a relevant scale and mark a distance of 7.56 km on it. [15]
2. The end A of a line AB is in the H.P and 25 mm behind the V.P. The B is in the V.P and 50 mm above the H.P. The distance between the end projectors is 75 mm. Draw the projections of AB and determine its true length and inclinations with the two planes. [15]
3. Draw the projections of a regular hexagon of 40 mm side, having one of its sides on the ground and inclined at 60° to VP and its surface making an angle of 30° with the ground. [15]
4. A pentagonal pyramid, side of base 35 mm and height 60 mm rests with its base on H.P and an edge of its base is parallel to V.P. A section plane perpendicular to V.P and inclined at 45° to H.P passes through the axis at a point 40mm above the base. Draw the sectional top view. [15]
5. A cylinder of diameter 40 mm penetrates into a cylinder of diameter 60 mm. Their axes intersect each other at an angle of 60° . Draw the front and top views of the solids showing the curves intersection. [15]
6. Draw the isometric view of a pentagonal pyramid with side of base 25 and axis 60 long. The pyramid is resting on its base on H.P, with an edge of the base (away from the observer) parallel to V.P. [15]

