R18 Code No: 151AD JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B.Tech I Year I Semester Examinations, October/November - 2020 ENGINEERING GRAPHICS (Common to CE, ME, EIE, MCT, MMT, AE, MIE, PTM) Max. Marks: 75 Time: 2 hours Answer any three questions All questions carry equal marks Construct a diagonal scale of RF = (1/50), to read meters, decimeters and centimeters. Mark a distance of 4.35 km on it. Draw an ellipse whose major and minor diameters are 150 mm and 100 mm b) [10+15]respectively. Draw a diagonal scale of 1:2.5 showing centimeters and millimeters and long enough to 2.a) measure up to 20 centimeters. Show a distance of 13.4 cm on it. Construct a parabola whose focus is at a distance of 40 mm from the directrix. Draw a b) tangent and normal to the parabola at a point 50 mm away from the principal axis. A line PQ 65 mm long has its end P, 15 mm above the HP and 15 mm in front of the VP. 3. It is inclined at 550 to the HP and 350 to the VP. Draw its projections, and find its true length. A regular hexagon of side 20 mm/has one of its sides inclined at 300 to VP. Its surface makes an angle of 60° with the ground. Draw its projections. Draw the projections of a square pyramid of base edges 30 mm and axis 54 mm, resting 5. on its base on FIP with one base edge parallel to VP and axis perpendicular to the HP.

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6. Draw the front view, top view and left side view of the object shown in figure. All dimensions are in mm. [25]

