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| JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B.Tech I Year I Semester Examinations, May/June - 2017 | | | |
| ENGINEERING GRAPHICS | | | |
| | Time: 3 hours | (Common to ME, MCT, MMT | Γ, MSNT) Max Marks: 75 |
| JJ | | Answer any five question All questions carry equal r | ons JJ |
| | 1.a) Draw an parabola each other. | having conjugate axes of 50 mm a | and 30 mm long and inclined at 75° to |
| | b) Construct a Diago | _ | g meters, decimeters and centimeters. |
| | The scale should i | measure up to 6 meters. Show a dis | |
| Draw an ellipse having the major axis of 60 mm and the minor axis of 40 mm Draw a Vernier scale of R.F. = 1/25 to read up to 4 meters on it show ler and 0.91 m. | | | |
| | | | |
| | | | d to HP & VP respectively. End A is projections. Line is in 1 st quadrant. |
| | b) A pentagonal plate of side 40 mm is held on V.P. on one of its corner. The edge op to that corner makes an angle of 55° with the H.P. The flat surface of pentagon is in at 30° to the V.P. Draw the projections. | | |
| | 4.a) Line AB is 85 mm long. It's FV and TV measure 55 mm and 65 mm long respectively. An end is 10 mm above HP and 25 mm in front of VP. Draw projections of line AB it end B is in first quadrant. Find angle with HP and VP. b) A square lamina of side 80 mm rests on a corner on HP. and it is inclined with H.P. such that its plan is a rhombus with a diagonal of 40 mm. The long diagonal is inclined with the V.P. at 45°. Determine its inclination with H.P. and draw it's projections. [7+8] | | |
| | | | |
| | 5.a) A pentagonal pyramid has height 60 mm and the side of a base 30 mm. The pyramid rests on one of its slant edges on the H.P. and makes an angle of 45 degrees with the V.P. Draw its projections. | | |
| | b) A cone of diameter of base 40 mm and axis length equal to 80 mm rests on one of its slant generators on H.P. such that its axis is inclined at an angle of 45° with the V.P. Keep its apex near to the V.P. and draw the projections. OR | | |
| | periphery of the b | er of base 60 mm and axis length ease on H.P such that its axis is inc | equal to 120 mm rests on a point of its clined at an angle of 35° with the H.P. prever. Draw its projection |
| | and 60° with the V.P. and the apex is near to the observer. Draw its projection. A hexagonal pyramid of side of base 30 mm and axis length 90 mm rests on one slant edge on the H.P such that the plane containing that slant edge on which it restricted the H.P. is inclined at 45° to V.P. and the apex is near to the V.P. Draw the projection of | | axis length 90 mm rests on one of its g that slant edge on which it rests on |
| <u></u> | is cut by an A.I.P passing through a plan, sectional side | which is perpendicular to V.P. and point 40 mm above the base and le view and true shape of section. | h two edges of base parallel to V.P. It not inclined to H.P. by 45 degrees and ad on axis. Draw elevation, sectional Take side of base 30 mm and height |
| samed samed | 60 mm. | www.FirstRanker.com | リープリー[ji5]ナ ー |

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