

2023

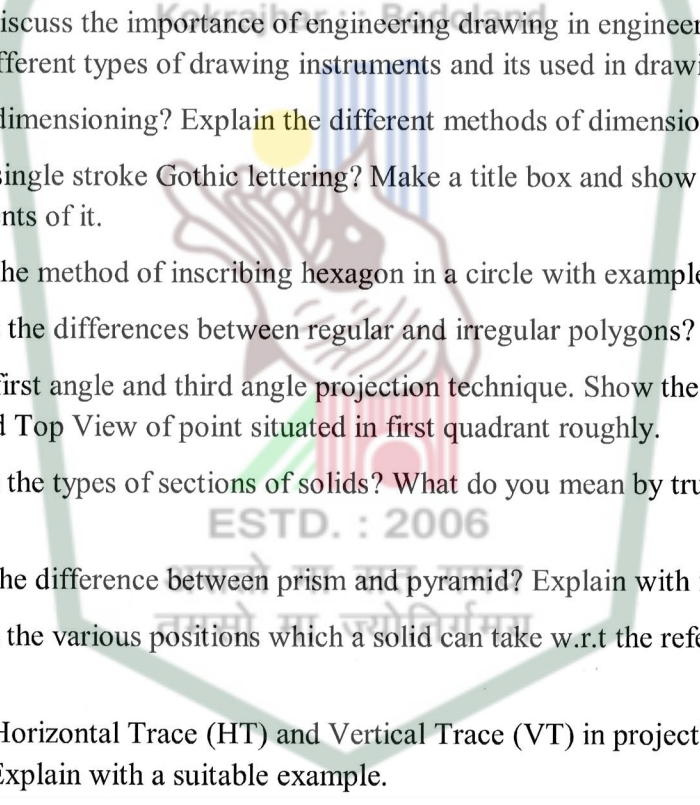
ENGINEERING DRAWING AND COMPUTER GRAPHICS

Full Marks: 100

Time: Three hours

The figures in the margin indicate full marks for the questions.

Answer any five questions.

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1. a) Briefly discuss the importance of engineering drawing in engineering. Name different types of drawing instruments and its used in drawing. 5+5=10
b) What is dimensioning? Explain the different methods of dimensioning. 4+6 = 10
2. a) What is single stroke Gothic lettering? Make a title box and show various components of it. 5+5=10
b) Explain the method of inscribing hexagon in a circle with example. 10
3. a) What are the differences between regular and irregular polygons? 10
b) Explain first angle and third angle projection technique. Show the Front View and Top View of point situated in first quadrant roughly. 10
4. a) What are the types of sections of solids? What do you mean by truncated solid? 10
b) What is the difference between prism and pyramid? Explain with figure. 10
5. a) What are the various positions which a solid can take w.r.t the reference planes? 10
b) What is Horizontal Trace (HT) and Vertical Trace (VT) in projection of planes? Explain with a suitable example. 10
6. a) What is an isometric view? 4
b) What are the types of orthographic projections? 4
c) Write the procedure to draw a parabola, hyperbola and ellipse 12