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B.M.S. College of Engineering, Bengaluru-560019

Autonomous Institute Affiliated to VTU

October / November 2021 Supplementary Examinations

Programme: B.E. **Semester : I / II**
Branch : ALL **Duration: 3 hrs.**
Course Code: 18ME1ESEED / 18ME2ESEED **Max Marks: 100**
Course Title: Elements of Engineering Drawing **Date: 29.10.2021**

Instructions: 1. Answer any FIVE full questions, choosing one full question from each unit.
2. Missing data, if any may be suitably assumed.

UNIT - 1

1 a) A point 35mm below XY line represents front view of two points E and F. The top view of point E is 25mm behind VP and the top view of point F is 40mm infront of VP. Draw the projections of points E and F and state the quadrants in which they lie. **05**

b) A straight line AB 80 mm long has its end A 60 mm infront of VP and 15 mm above HP. Its left profile view is inclined to XY line at 50°. Point B is nearer to VP than point A. Draw the projections of the line AB and find its true inclinations with HP and VP. **15**

OR

2 a) A point is lying on HP, 25mm infront of VP and 15 mm behind RPP. Draw its projections & state the quadrant in which it is located. **05**

b) A room is 6 m x 5 m x 3.5 m high. An object is placed 1.2 m above the ground and in the center of the room. Determine graphically its distance from one of the corners between the roof and the adjacent walls. Select a Scale 1:50 **15**

UNIT - 2

3 A rectangular cardboard ABCD of edges AB = 55 mm and BC = 70 mm is placed such that the diagonal AC makes 60° with HP and the side AB makes 30° with VP. Draw its projections **20**

UNIT - 3

4 A pentagonal pyramid of base 30mm sides and axis 65 mm long rests on HP on its base edge which is parallel to VP at a distance of 50 mm. Draw its projections when the slant triangular face bounded by that edge is inclined to HP and the apex of the pyramid is touching VP. **20**

OR

5 A square pyramid, 35 mm edges base and 72 mm axis length is suspended through the midpoint of its base edge such that the axis is inclined to VP at 30º. Draw its projections. **20**

Important Note: Completing your answers, compulsorily draw diagonal

UNIT - 4

6 Draw the development of the object shown in Fig (1). Height = 80 mm and base side = 30 mm

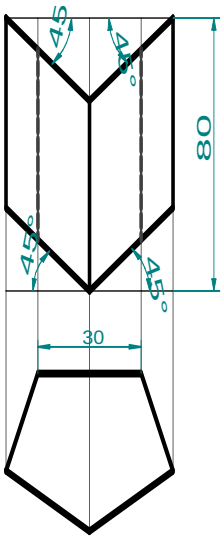

Fig (1)

UNIT - 5

7 Draw the isometric projection of combination of solids from the following data. A Hexagonal prism, 25 mm sides of base and axis length 60 mm is resting centrally on its base on the top face of a cylinder of base diameter 60mm and axis length 20 mm. **20**

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