

Model Question Paper-2



FACULTY OF ENGINEERING AND TECHNOLOGY
DEPARTMENT OF MECHANICAL ENGINEERING
Second Semester B.E. Degree Examination - 2020
ENGINEERING DRAWING (19KBEDR24)

Time: 3 Hours

(COMMON TO ALL BRANCHES)

Max. Marks: 100

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- Note:** 1. Answer three full questions 2. Use A4 sheets supplied.
3. Draw to actual scale 4. Missing data, if any, may be assumed suitably.
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1. a. A point 30 mm above XY line is the front view of two points A and B. The top view of A is 40 mm behind VP and the top view of B is 45 mm in front of VP. Draw the projections of the points and state the quadrants in which the points are situated. 10 Marks

b. A line AB 80 mm long is inclined to HP at 30 deg. and inclined to VP at 45 deg. Draw front and top views of line and determine their lengths. Also measure the perpendicular distance of end B from both HP and VP. 20 Marks

OR

A 30 - 60 deg. set square of 60 mm longest side is so kept such that the longest side is in HP making an angle of 30 deg. with VP. The set square itself is inclined at 45 deg. to HP. Draw the projections of the set square. 30 Marks

2. A square pyramid 35mm sides of base and 60mm axis length rest on HP on one of its slant edges. Draw the projection of the pyramid when the axis appears to be inclined to VP at 45 deg. 40 Marks

3. A square pyramid of 25 mm base edge and 50 mm height rests with its base on HP with all of its base edges equally inclined to VP. It is cut by a plane perpendicular to VP and inclined to HP at 60 deg, passing through the extreme right corner of the base. Draw the development of the lateral surface of the pyramid. 30 Marks

OR

A cone of base diameter 50 mm and height 40 mm is placed centrally on the top face of a square slab side - 80 mm and height 20 mm. Draw the isometric projection of the combination. 30marks
