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Backlog Exam
Odd Semester Examination-2022

Paper Name: Engineering Graphics & Design Paper

Paper Code: BTCSE 104/BTCSEAI 104/BTECE 104

Time: 3 Hours

Maximum Marks: 75

IMPORTANT

(i) Write your Name, Enrollment Number and Section on First sheet.

(ii) Save your answer sheets in a single pdf file with your Enrollment Number and Name.

Course Outcomes:

CO1: Comprehend general projection theory, with emphasis on orthographic projection to represent three-dimensional objects in two-dimensional views (principal, auxiliary, sections).

CO2: Dimension and annotate two-dimensional engineering drawings.

CO3: The application of industry standards and best practices applied in engineering graphics.

CO4: Emphasize freehand sketching to aid in the visualization process and to efficiently communicate ideas graphically

CO5: Introduce CAD software for the creation of 3D models and 2D engineering drawings.

PART –A

(All questions are compulsory)

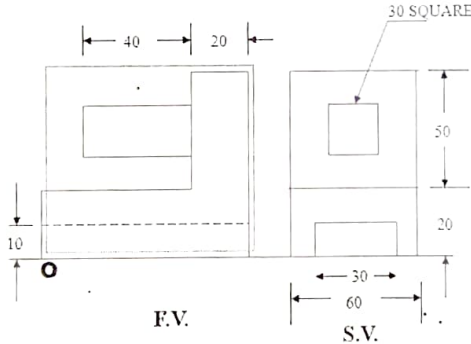
(5 X 7 = 35)

Q No	Questions	Marks	Course Outcomes	Blooms Taxonomy Level
Q.1	Construct a plain scale to read decimeters and centimeters, and long enough to measure 4 dm with R.F = 1:2. Mark the distance 1.7 and 2.4 dm on the scale.	7	CO1	L1
Q.2	Draw an involute of a circle of 20 mm radius.	7	CO2	L3
Q.3	Draw ellipse by any method. Take major axis 100 mm and minor axis 70 mm long	7	CO3	L2
Q.4	Line AB is 75 mm long and it is 30° & 40° inclined to HP & VP respectively. End A is 12mm above HP and 10 mm in front of VP. Draw projections. Line is in 1st quadrant	7	CO3	L4
Q.5	Rectangle 30 mm and 50 mm sides is resting on HP on one small side which is 30° inclined to VP, while the surface of the plane makes 45° inclinations with HP. Draw it's projections.	7	CO1	L5

PART – B

(Attempt any two questions out of four)

(2 X 20 = 40)

Q No	Questions	Marks	Course Outcomes	Blooms Taxonomy Level
Q.1	A hexagonal prism, base side 40 mm and axis 40 mm has a centrally drilled circular hole of diameter 40 mm. Draw its projections when the prism is resting on an edge of its base on the HP and the axis inclined at 60° to the HP and parallel to the VP	20	CO4	L3
Q.2	A circle of 25 mm radius rolls on the circumference of another circle of 150 mm diameter and outside it. Draw the locus of the point P on the circumference of the rolling circle for one complete revolution of it. Name the curve & draw	20	CO3	L3
Q.3	A pentagonal prism, 30 mm base side & 50 mm axis is standing on Hp on its base with one side of the base perpendicular to VP. It is cut by a section plane inclined at 45° to the HP, through mid-point of axis. Draw Fv, sec.Tv & sec. Side view. Also draw true shape of section and	20	CO1	L2
Q.4	Draw the isometric view of block shown in the Fig.1.  Fig.1	20	CO1	L6

BL – Bloom's Taxonomy Levels

(1- Remembering, 2- Understanding, 3- Applying, 4-Analyzing, 5- Evaluating, 6- Creating)

CO-Course Outcomes

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