

JAMIA HAMDARD
Department of Computer Science & Engineering
School of Engineering Sciences & Technology
Odd Semester Examination 2023

Paper Name: Engineering Graphics&Design

Paper Code: BTCSE /BTCSE AI/BTECE104

Time: 3 Hours

Maximum Marks: 60

IMPORANT INTSTRUCTIONS

- (i) Read the instructions and questions carefully
- (ii) Write your Name, Roll Number and Class along with Section in the title Block (150X50 mm²) on first sheet.
- (iii) Use both sides of the drawing sheet to write your answers.
- (iv) You're allowed to use maximum two sheets and don't leave blank spaces.
- (v) Show all necessary dimensions and text of the solution on your drawing.
- (vi) Double-check your work before submitting.

(vii) PART -A
(All questions are compulsory)

(4 X 5 =20)

Q No	Questions	Marks	Course Outcomes	Blooms Taxonomy Level
Q.1	Write the following sentence in single stroke lower case letter (12 mm height) "One thing I believe strongly in this life is that you just don't reward bad behavior. – DrPhil"	5	CO3	L2
Q.2	Construct a plain scale to read kilometer and Hectometer, and scale should be long enough to measure 6 km with RF = 1:32000. Mark the distance 3.6 and 4.1 km on the scale.	5	CO1	L1
Q.3	Draw an involute of a regular pentagon of 20 mm side.	5	CO2	L3
Q.4	Draw an ellipse by concentric circle method. Take major axis 100 mm and minor axis 70 mm long.	5	CO3	L2

PART - B
(Attempt any Four questions out of four)

(4 X 10 =40)

Q No	Questions	Marks	Course Outcomes	Blooms Taxonomy Level
Q.1	Write "MSA 23" in Double stroke gothic Vertical Lettering (Take 35 mm height)	10	CO4	L3
Q.2	Construct a diagonal scale of RF = 1/22 showing yard, feet and inches and measure upto 5 yards and also indicate the distance of 4 yards 2 feet and 10 inches on the scale	10	CO1	L1
Q.3	Draw locus of a point on the periphery of a circle which rolls on straight line path. take circle diameter as 100 mm also name the curve	10	CO2	L2
Q.4	A semi-circular plane of diameter 60 mm has its straight edge on the VP and inclined at 30° to the HP. Draw the projection of the	10	CO4	L3

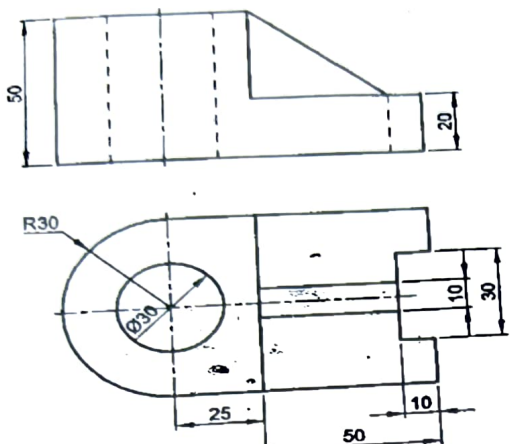
	plane when its surface inclined at 45 degrees to the VP.			
Q.5	A square pyramid of base side 40 mm and axis 60 mm has a corner of its base in de VP. A slant edge contained by that corner is inclined at 45° to the VP. Draw its projections when a plane containing the slant edge and the axis is inclined at 45° to the HP.	10	CO1	L2
Q.6	Draw the isometric view of block shown in the Fig.1. (All the dimension are in mm) 	10	CO1	L6

Figure 1

BL – Bloom's Taxonomy Levels

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

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