

SHRI MATA VAISHNO DEVI UNIVERSITY, KATRA

School of Mechanical Engineering

B. Tech. Mid Semester Examination, March 2024

Entry No:

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Total Number of Pages: [01]

Total Number of Questions: [04]

Course Name: Engineering Graphics with CAD
Course Code:

Time Allowed: 1.5 Hours

Max Marks: [20]

Instructions / NOTE

- i. Attempt All Questions.

ii. Assume an appropriate data / information, wherever necessary / missing.

l. Draw the F.V and T.V of a point 'U' if the point is 20 mm above H.P. and 20 mm in front of V.P.

(03 Marks).

- A line 'PQ' 60 mm long and having its end point 'P' 20 mm above H.P and 40 mm in front of V.P. Draw its projections when line is perpendicular to H.P and parallel to V.P (07 Marks)
 - A Line 'MN', 60 mm long, makes an angle of 30 Degree to V.P. Its end 'M' is 10 mm above H.P and 25 mm in front of V.P. Draw its Projections and determine its projected length. (04 Marks)
 - A Line 'PQ', 65 mm long, has its end 'P' in both H.P and V.P. It is inclined at 45 degree to H.P.

Draw its projections and show its apparent Length

SHRI MATA VAISHNO DEVI UNIVERSITY, KATRA

School of Mechanical Engineering

B. Tech. (ECE) Mid Sem. Examination (Second Sem.) 2024-25

Entry No:

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Date: 21-03-2015

Course Title: Engineering Graphics with CAD

Course Code: MEL 1039

Time Allowed: 1.5 Hours

Instructions / NOTE

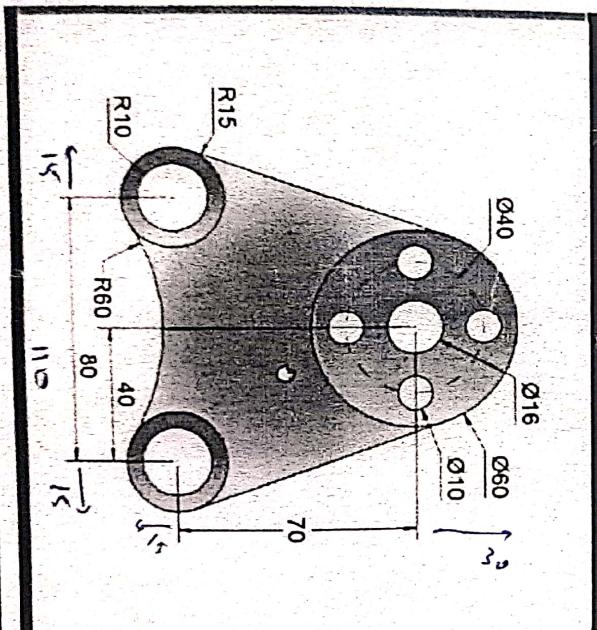
- i. Attempt All Questions in AutoCAD software
- ii. Assume an appropriate data / information, wherever necessary / missing.

Max Marks: [20]

[Signature]

Total Number of Pages: [01]

Total Number of Questions: [03]



Q1. A line U 60 mm long, having it's end point I 30 and 40 mm away from HP and VP respectively. Line is inclined to HP at 40° and parallel to VP, draw it's projections when end point I lies in third quadrant. (5)

Q2. A line EF having it's end point E 20 mm below HP and 30 mm behind VP while end point F is 40 mm above HP and 50 mm infront of VP. Draw it's projections and also find true length and true inclinations when distance between the end projectors is 60 mm. (8)

Q3. Draw following figure in AutoCAD software.

(7)

SHRI MATA VAISHNO DEVI UNIVERSITY, KATRA
School of Mechanical Engineering
B. Tech. (ECE) Major Examination (Second Sem.) 2024-25

Entry No:

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Date: 23-07-2025

Total Number of Pages: [01]
 Total Number of Questions: [05]

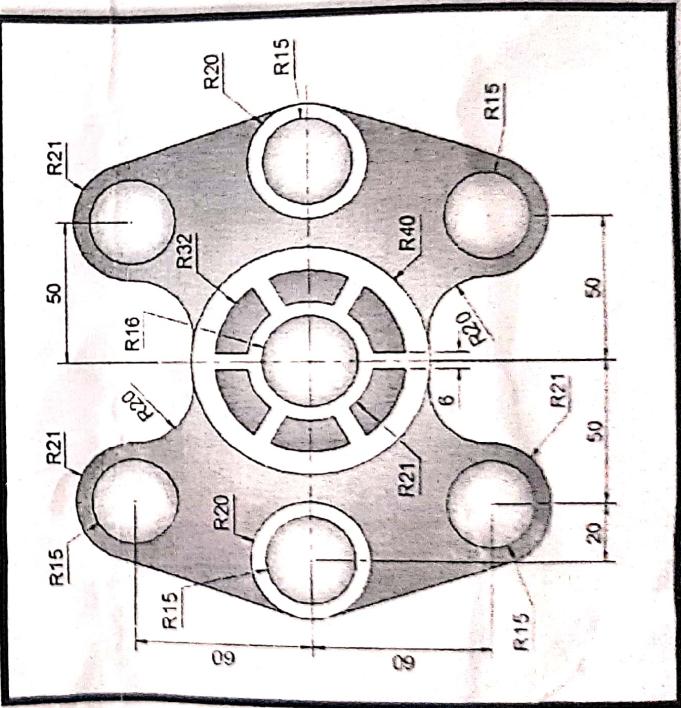
Course Title: Engineering Graphics with CAD
 Course Code: MEM SE 102

Time Allowed: 3.0 Hours

Instructions / NOTE

- Attempt All Questions.
- Attempt first 4 questions on drawing sheet and question no. 5 in AutoCAD software

Q1.	The top view of a 65mm long line EF measures 55mm, while its front view measures 40mm. Its one end E is in HP and 12mm in front of VP. Draw the projections of line EF, traces and determine its inclination with HP and VP.	[07]	CO2
Q2.	Draw the projections of a circle of 50 mm diameter having its plane perpendicular to VP and inclined at 30° to the H.P. Its centre is 30 mm above the H.P. and 40 mm in front of the V.P.	[07]	CO3
Q3.	A right regular pentagonal pyramid, edge of base 25mm and axis height 50 mm, lies on one of its triangular faces on HP with its axis parallel to VP. Draw its projections.	[08]	CO4
Q4.	Draw the projections of a pentagonal prism, base 25 mm side and axis 50 mm long, resting on one of its rectangular faces on the H.P. with the axis inclined at 45° to the V.P.	[08]	CO4
Q5.		[10]	CO1



Course Outcomes

- Upon successful completion of this course, the student shall be able:
- To learn basics of drawing including dimensioning and basic commands in AutoCAD
 - To draw orthographic projections of points and lines and traces of line.

SHRI MATA VAISHNO DEVI UNIVERSITY, KATRA
School of Mechanical Engineering
B. Tech. (ECE) Minor-II Examination (Second Sem.) 2023-24

Entry No:

Date: 18-04-2024

Course Title: Engineering Graphics with CAD
Course Code: MEM SE102

Time Allowed: 1.0 Hour

Instructions / NOTE

- i. Attempt All Questions.
- ii. Assume an appropriate data / information, wherever necessary / missing.

Total Number of Pages:

Total Number of Questions:

Max Mark

Q1.	The front view of a line AB 75 mm long measures 60 mm and is inclined at 45^0 to reference line. Given that end point A is 20 mm above HP and end point B is also above HP. The end A is in VP. Draw the projections and find the inclinations of line with HP and VP.	[06]
Q2.	A regular hexagonal lamina having 30 mm side is perpendicular to VP and parallel to HP. Draw it's projections when one of it's side is 30^0 inclined to VP.	[04]
Q3.	Draw the projections of a circle of 50 mm diameter having its plane perpendicular to HP and inclined at 30^0 to the V.P. Its centre is 30 mm above the H.P. and 20 mm in front of the V.P.	[05]
Q4.	Draw the projections of a regular pentagon of 25mm sides, having one of its side in the H.P. The pentagon lamina is inclined at 60^0 to the V.P. and perpendicular to H.P.	[05]

Course Outcomes

..... -..... -..... -..... -..... -..... the student shall be able:



SHRI MATA VAISHNO DEVI UNIVERSITY, KATRA

School of Mechanical Engineering

Entry No:

Date: 28-02-2024

Total Number of Pages: [01]

Total Number of Questions: [04]

Course Title: Engineering Graphics with CAD**Course Code:** MEM SE102**Time Allowed:** 1.0 HourInstructions / NOTE

- i. Attempt All Questions.
- ii. Assume an appropriate data / information, wherever necessary / missing.

Max Marks: [20]

Q1.	A point 'N' 30 mm away from VP and 40 mm away from HP. Draw its projections when point lies in third quadrant.	[03]	CO1.C
Q2.	A line TQ 60 mm long, perpendicular to VP and parallel to HP. Draw its projections when end point 'T' is 20 mm above HP and 30 mm in front of VP.	[04]	CO1.C
Q3.	A line CD 80 mm long, having its end point 'C' 40 and 30 mm away from HP and VP respectively. Line is inclined to VP at 40° and parallel to HP, draw its projections when end point 'C' lies in first quadrant.	[05]	CO1.C
Q4.	A line PL having its end point L 20 mm below HP and 30 mm behind VP while end point P is 40 mm above HP and 50 mm in front of VP. Draw its projections and also find true length and true inclinations when distance between the end projectors is 60 mm.	[08]	CO1.C

Course Outcomes

Upon successful completion of this course, the student shall be able:

CO1. To learn basics of drawing including dimensioning.

SHRI MATA VAISHNO DEVI UNIVERSITY, KATRA

B. Tech. (ECE, ME-) Major Examination (Second Sem.) 2023-24

Entry No:

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Date: 18-05-2024

Total Number of Pages: [01]

Course Title: Engineering Graphics with CAD
Course Code: MEM SE102

Time Allowed: 3.0 Hours

Max Marks: [50]

- Instructions / NOTE
- Attempt All Questions.
 - Assume an appropriate data / information, wherever necessary / missing.

Q1.	A point 'D' 30 mm away from HP and 40 mm away from VP. Draw it's projections when point lies in first quadrant.	[04]	C02
Q2.	The front view of a line CD 75 mm long measures 60 mm and is inclined at 45^0 to reference line. Given that end point C is 20 mm above HP and end point D is also above HP. The end C is in VP. Draw the projections and find the inclinations of line with HP and VP.	[08]	C02
Q3.	A line CD 65 mm long has it's end C both in HP and VP. It is inclined at 45^0 to the HP and 30^0 to VP. Draw it's projections the line is in third quadrant.	[08]	C02
Q4.	Draw the projections of a circle of 50 mm diameter having its plane perpendicular to VP and inclined at 30^0 to the H.P. Its centre is 20 mm above the H.P. and 30 mm in front of the V.P.	[05]	C03
Q5.	Draw the projections of a regular hexagon of 25mm sides, having one of its side in the H.P. The hexagonal lamina is inclined at 60^0 to the V.P. and perpendicular to H.P.	[05]	C03
Q6.	Draw the projections of a pentagonal prism, base 25 mm side and axis 50 mm long, resting on one of its rectangular faces on the H.P. with the axis inclined at 45^0 to the V.P.	[10]	C04
Q7.	A right circular cone, diameter of base 50 mm and height 62 mm, lies on HP on one of its elements with its axis parallel to VP. Draw the projections of the cone.	[10]	C04

Course Outcomes

Upon successful completion of this course, the student shall be able:

- To learn basics of drawing including dimensioning.
- To draw orthographic projections of points and lines and traces of line.
- To draw orthographic projections of lines and angles.



SHRI MATA VAISHNO DEVI UNIVERSITY, KATRA

School of Mechanical Engineering

B.Tech. (ECE) Minor-I Examination (Second Sem.) 2023-24

Entry No: _____

Total Number of Questions: 10

Course Title: Engineering Graphics with CAB

Course Code: MEM SE102

Max Marks: 120

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- ii. Attempt All Questions.

iii. Assume an appropriate data / information, wherever necessary / missing

Q1.	A point 'N' 30 mm away from VP and 40 mm away from HP. Draw its projections when point lies in third quadrant.	[03]	C01,C02
Q2.	A line TQ 60 mm long, perpendicular to VP and parallel to HP. Draw its projections when end point 'T' is 20 mm above HP and 30 mm in front of VP.	[04]	C01,C02
Q3.	A line CD 80 mm long, having its end point 'C' 40 and 30 mm away from HP and VP respectively. Line is inclined to VP at 40° and parallel to HP, draw its projections when end point 'C' lies in first quadrant.	[05]	C01,C02
Q4.	A line PL having its end point L 20 mm below HP and 30 mm behind VP while end point P is 40 mm above HP and 50 mm in front of VP. Draw its projections and also find true length and true inclinations when distance between the end projectors is 60 mm.	[08]	C01,C02

Course Outcomes
Upon successful completion of this course, the student shall be able:

- CO1. To learn basics of drawing including dimensioning.
 - CO2. To draw orthographic projections of points and lines and traces of line.
 - CO3. To draw orthographic projections of planes.
 - CO4. To draw orthographic projections and section of solids.

