

Hall Ticket No:

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Question Paper Code: 18ME101

MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE, MADANAPALLE

(UGC-AUTONOMOUS)

B.Tech I Year II Semester (R18) Regular End Semester Examinations –January 2021

ENGINEERING GRAPHICS

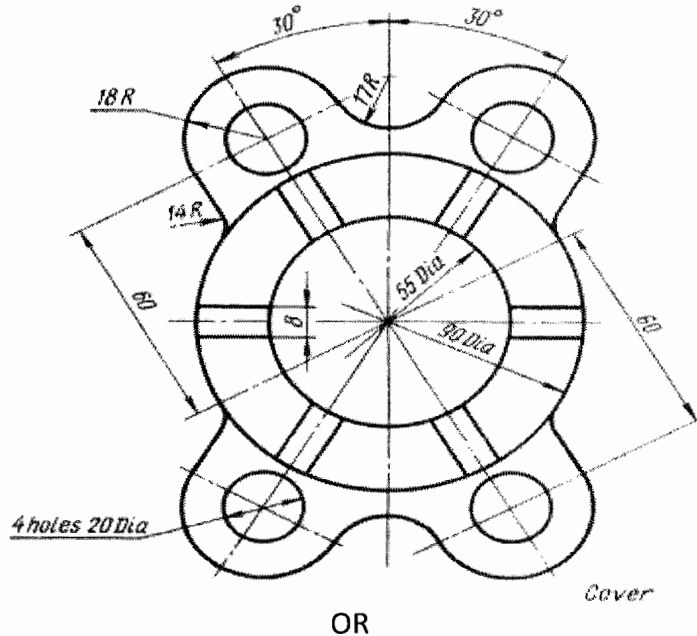
(EEE)

Time: 3Hrs

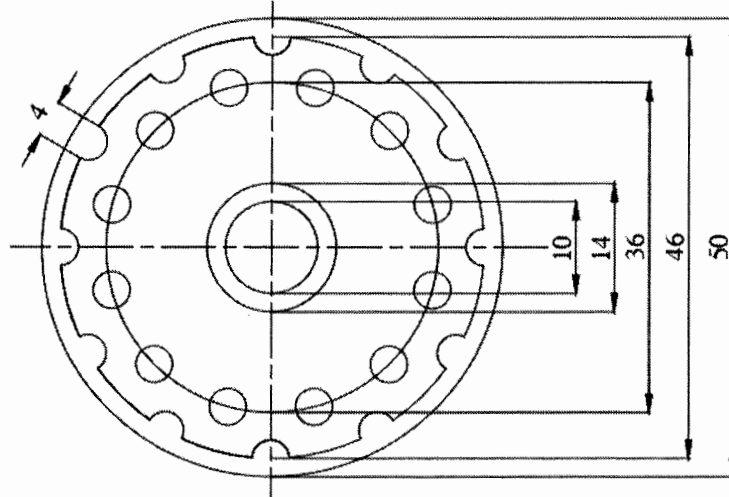
Max Marks: 60

Attempt all the questions. All parts of the question must be answered in one place only.
All parts of Q.no 1 are compulsory. In Q.no 1 to 5 answer either Part-A or B only

Q.1(A) Draw the figure shown below using Auto CAD commands and dimension it. 12M



Q.1(B) Draw the figure shown below using Auto CAD commands and dimension it. 12M



- Q.2(A) Draw the projections of the following points on the same ground line XY; keeping the distance between the projectors are 35mm, Name the quadrants in which they lie. 12M
- Point A, 20mm above the H.P. and 30mm in front of the V.P.
 - Point B, 40mm below the H.P. and 30mm behind the V.P.
 - Point C, 25mm above the H.P. and 35mm behind the V.P.
 - Point D, 30mm below the H.P. and 20mm in front of the V.P.

OR

- Q.2(B) A line AB 80mm long is inclined at an angle of 40° to H.P and 55° to V.P. The point A is 20mm above H.P and 30mm in front of V.P. Draw its Projections and find the apparent inclinations with HP and VP. 12M

- Q.3(A) A pentagonal pyramid of base side 30mm and axis 60mm has an edge of base parallel to H.P. Its axis is parallel to V.P and inclined at 45° to H.P. Draw its projections when the apex lies in the H.P. 12M

OR

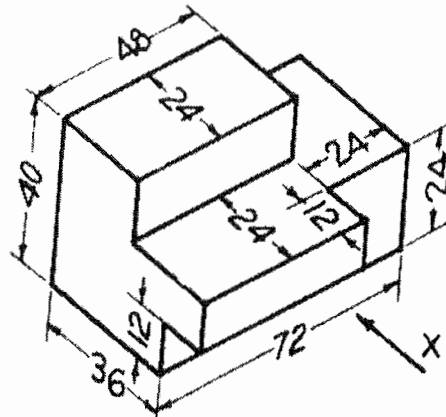
- Q.3(B) Draw the projections of a circle of 50 mm diameter having its plane vertical and inclined at 30° to V.P. Its centre is 30 mm above HP and 20 mm in front of V.P. 12M

- Q.4(A) A cylinder of base diameter 40 mm and height 80 mm rests on its base on HP. It is cut by section plane perpendicular to VP and inclined at 45° to HP and passing through the axis at a distance 40 mm from base. Draw the front view, sectional top view and true shape. 12M

OR

- Q.4(B) A hexagonal prism of side of base 30 mm and axis 70 mm long is resting on its base on H.P. such that a rectangular face is parallel to V.P. It is cut by a section plane perpendicular to V.P. and inclined at 30° to H.P. The section plane is passing through the axis at a height of 40mm from the base. Draw the development of the lateral surface of the cut prism. 12M

- Q.5(A) Draw the front, top and left side view for the figure given below 12M



OR

- Q.5(B) A Vertical cylinder of 80mm diameter is completely penetrated by another cylinder of 60mm diameter, their axes bisecting each other at right angles. Draw their projections showing curves of penetration, assuming the axis of penetrating cylinder to be parallel to the V.P. 12M

*** END***

Hall Ticket No:

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Question Paper Code: 18ME101

MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE, MADANAPALLE
(UGC-AUTONOMOUS)
B.Tech I Year II Semester (R18) Regular End Semester Examinations –January 2021
ENGINEERING GRAPHICS
(EEE)

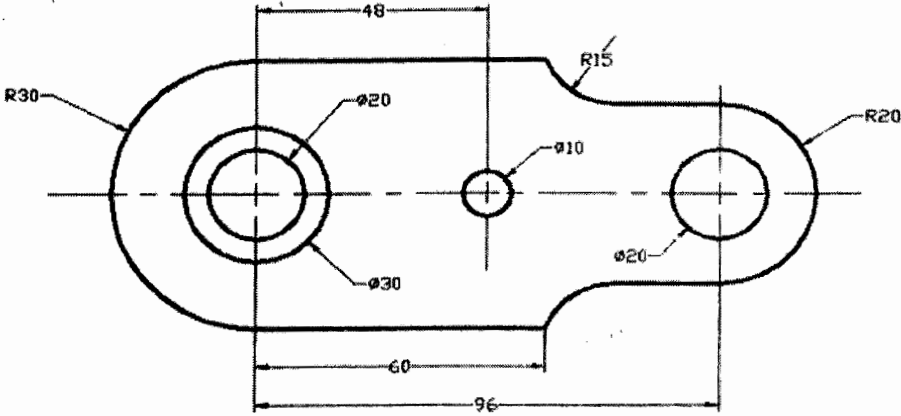
Time: 3Hrs

Max Marks: 60

Attempt all the questions. All parts of the question must be answered in one place only.
All parts of Q.no 1 are compulsory. In Q.no 1 to 5 answer either Part-A or B only

Q.1(A)

12M

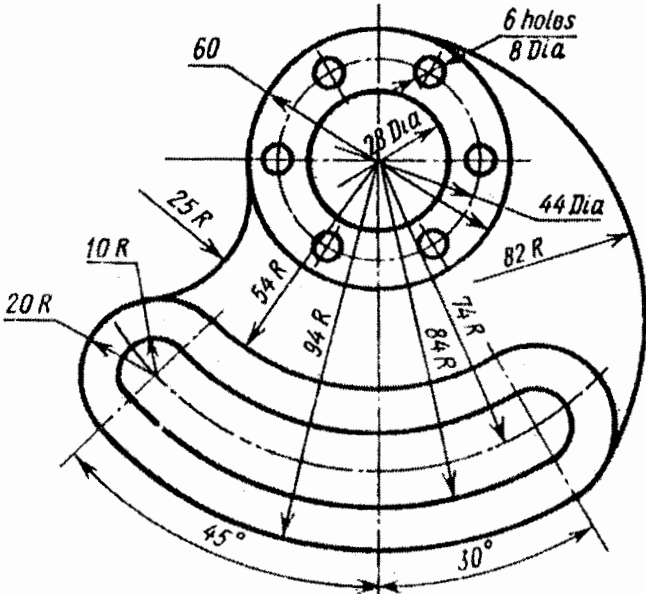


Draw the figure shown above using Auto CAD commands and dimension it.

OR

Q.1(B)

12M



Draw the figure shown above using Auto CAD commands and dimension it.

Q.2(A) A point A is 10mm above H.P and 15mm in front of V.P. Another point B is 15mm behind V.P and 20mm below H.P. draw the projections of A and B keeping the distance between the projections equal to 30mm. Draw straight lines, joining (i) the top views and (ii) the front views. 12M

OR

Q.2(B) Draw the projections of a 75mm long line in the following positions. 12M
 i. Perpendicular to H.P, 20mm in front of V.P, and its one end 15mm above H.P
 ii. Perpendicular to V.P, 25mm above H.P, and its one end is in V.P
 iii. Perpendicular to H.P in V.P, and its one end is in H.P

Q.3(A) A pentagonal plate of 45mm side has a circular hole of 40mm diameter in its center. The plate stands on one of its sides on the H.P. with its plane perpendicular to V.P. and 45° inclined to H.P. Draw its projections. 12M

OR

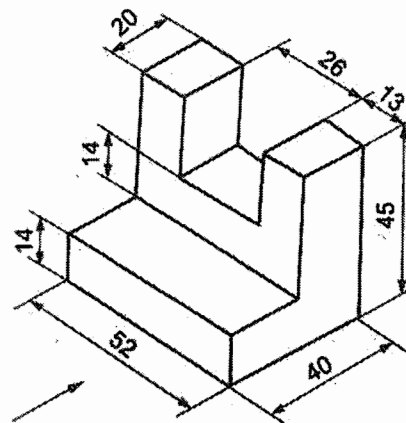
Q.3(B) A Pentagonal Prism of base edge 30 mm and axis 60mm rests on an edge of its base in the H.P. Its axis is parallel to V.P and inclined at 45° to H.P. Draw its projections. 12M

Q.4(A) A Pentagonal prism of base edge 30mm side and axis 65mm has its base horizontal and an edge of the base parallel to V.P. A horizontal section plane cuts it at a distance of 25mm above the base. Draw its front view and sectional top view. 12M

OR

Q.4(B) A cylinder of base 50mm and axis 60mm is resting on ground with its axis vertical. It is cut by a section plane perpendicular to V.P and inclined at 45° to H.P passing through the top of the generator and cuts all other generators. Draw its development of its lateral surface. 12M

Q.5(A) 12M



Draw Front view ,Topview and sideview of the above digram

OR

Q.5(B) A vertical square prism, base 50mm side and height 90mm has a face inclined at 30° to the VP. It is completely penetrated by another square prism, base 40mm side and 100mm long, faces of which are equally inclined to the VP. The axes of the two prisms are parallel to the VP and bisect each other at right angles. Draw the projections showing lines of the inter section. 12M

END

MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE, MADANAPALLE
(UGC-AUTONOMOUS)

B.Tech I Year II Semester (R18) Regular End Semester Examinations –JANUARY 2021

ENGINEERING GRAPHICS

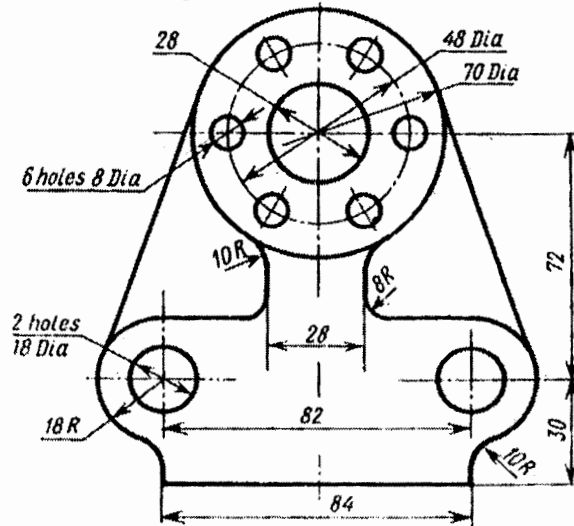
(Mechanical Engineering)

Time: 3Hrs

Max Marks: 60

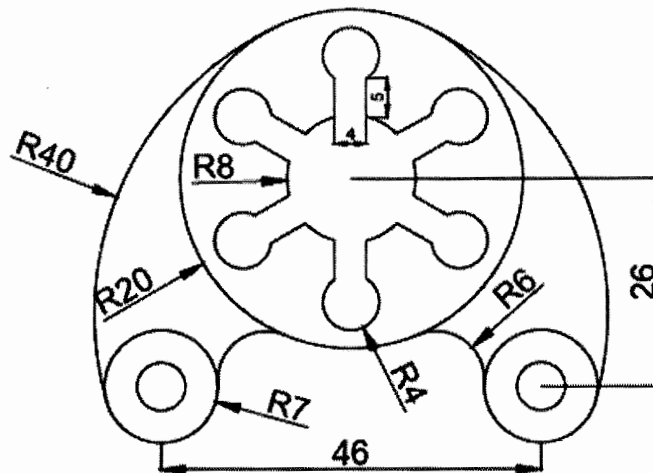
Attempt all the questions. All parts of the question must be answered in one place only.
All parts of Q.no 1 are compulsory. In Q.no 1 to 5 answer either Part-A or B only

Q.1(A) Draw the figure shown below using Auto CAD commands and dimension it. 12M



OR

Q.1(B) Draw the figure shown below using Auto CAD commands and dimension it. 12M



Q.2(A) Draw the projections of a 75mm long line in the following positions. 12M

- i. Inclined at 30° to H.P, its one end 20mm above H.P, Line is parallel to and 30mm in front of V.P
- ii. Inclined at 60° to V.P, its one end 15mm in front of V.P. Line is Parallel to and 25mm above H.P.

OR

- Q.2(B) Draw the projections of the following points on the same ground line XY; keeping the distance between the projectors as 30mm, Also name the quadrants in which they lie. 12M
- Point A, in the V.P. and 15mm above the H.P.
 - Point B, 15mm below the H.P. and 10mm behind the V.P.
 - Point C, 10mm above the H.P. and 15mm behind the V.P.
 - Point D, 15mm below the H.P. and 10mm in front of the V.P.

- Q.3(A) Draw the projections of a regular hexagon of 25mm side having one of its sides in the H.P and inclined at 60° to V.P and its surface making an angle of 45° with H.P. 12M

OR

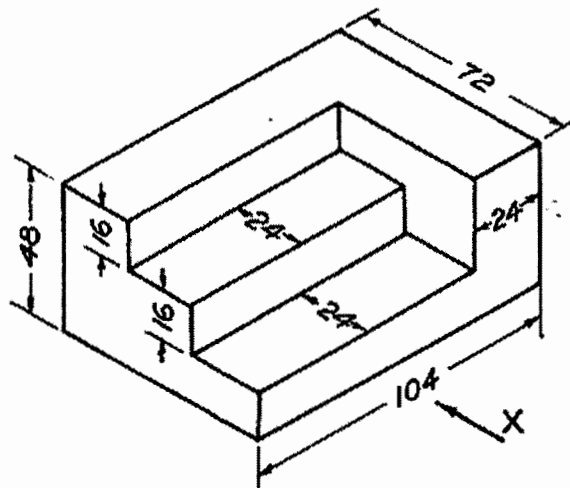
- Q.3(B) A Pentagonal Prism of base edge 30 mm and axis 60mm has a corner on the H.P with its axis inclined at 45° to the H.P. Draw the projections when the plane containing the resting corner and the axis is parallel to V.P. 12M

- Q.4(A) A cylinder of base 60mm and axis 80mm is resting on ground with its axis vertical. It is cut by a section plane perpendicular to V.P and inclined at 60° to H.P passing through the midpoint of the axis. Draw its development of its lateral surface. 12M

OR

- Q.4(B) A Square prism base 40mm side and axis 65mm has its base on the H.P, and all the edges of the base equally inclined to the V.P. It is cut by a section plane, perpendicular to the V.P., inclined at 45° to the H.P. and bisecting the axis. Draw its front view and the sectional top view. 12M

- Q.5(A) Draw Front view ,Topview and sideview for the given isometric view. 12M



OR

- Q.5(B) A vertical square prism, base 50mm side and height 100mm has a face inclined at 45° to the VP. It is completely penetrated by another square prism, base 40mm side and 90mm long, both the faces of which are equally inclined to the VP. The axes of the two prisms are parallel to the VP and bisect each other at right angles. Draw the projections showing lines of the inter section. 12M

END

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Question Paper Code: 18ME101

MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE, MADANAPALLE
(UGC-AUTONOMOUS)

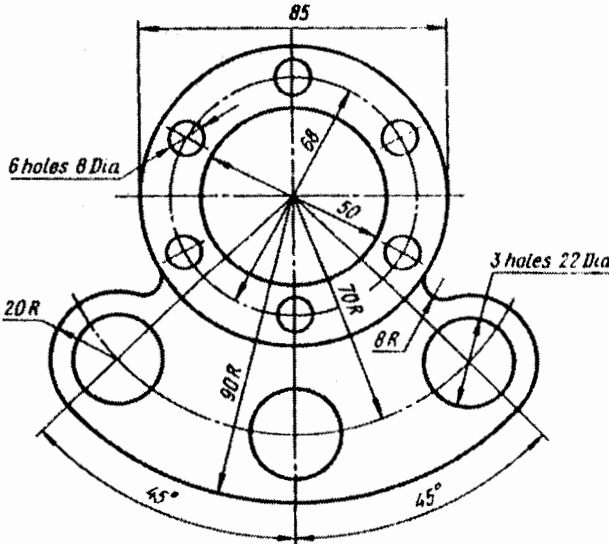
B.Tech I Year II Semester (R18) Regular End Semester Examinations –JANUARY 2021
ENGINEERING GRAPHICS
(Mechanical Engineering)

Time: 3Hrs

Max Marks: 60

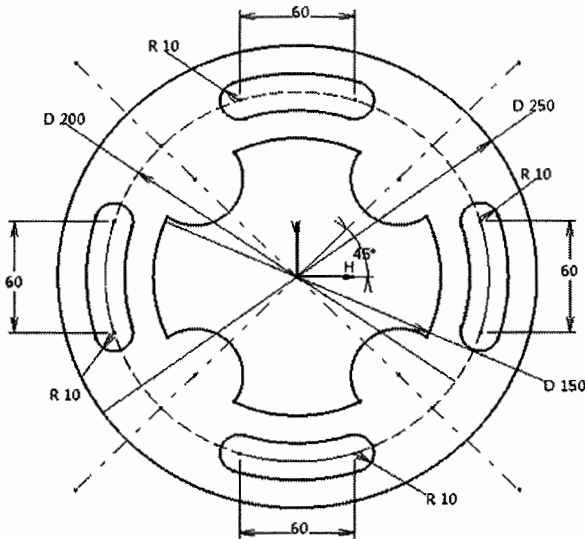
Attempt all the questions. All parts of the question must be answered in one place only.
All parts of Q.no 1 are compulsory. In Q.no 1 to 5 answer either Part-A or B only

Q.1(A) Draw the figure shown below using Auto CAD commands and then dimension it. 12M

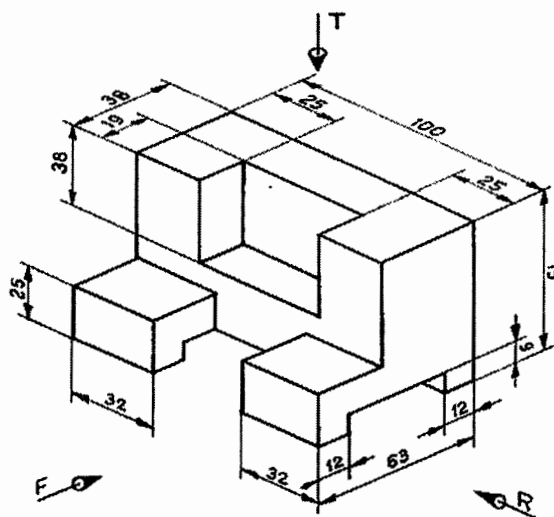


OR

Q.1(B) Draw the figure shown below using Auto CAD commands and dimension it. 12M



- Q.2(A) Two points C and D are in the H.P. The point C is 15mm in front of V.P and D is behind the V.P. the distance between their projectors is 40mm and line joining their top views makes an angle of 40° with XY. Find the distance of the point C from the V.P. 12M
- OR
- Q.2(B) The line EF 70 mm long has its end E, at 10mm above the HP and 15mm in front of VP. Its Elevation and Plan measures 50mm and 60mm respectively. Draw the projections of the line and determine its inclinations with HP and VP. 12M
-
- Q.3(A) A Hexagonal Pyramid of base edge 30 mm and height 60mm has a triangular face on the ground and the axis is parallel to V.P. Draw its projections. 12M
- OR
- Q.3(B) A square ABCD of 50mm side has its corner A in the H.P. its diagonal AC is inclined at 30° to the H.P and the diagonal BD inclined at 45° to the VP and parallel to H.P. Draw its projections 12M
-
- Q.4(A) A hexagonal prism of base side 30mm and height 80 mm resting on its base on H.P with one rectangular face perpendicular to V.P. It is cut by a section plane inclined at 45 degrees to the H.P and passing through the mid point of the axis. Draw the development of the lateral surface of the truncated prism. 12M
- OR
- Q.4(B) A Pentagonal prism of base edge 30mm side and axis 65mm has its base horizontal and an edge of the base parallel to V.P. A horizontal section plane cuts it at a distance of 25mm above the base. Draw its front view and sectional top view. 12M
-
- Q.5(A) Draw Front view ,Topview and Right sideview for the isometric view shown 12M



OR

- Q.5(B) A vertical cylinder, 50mm in diameter and 70 mm in length, is resting on its base, with its axis perpendicular to the HP. It is completely penetrated by another horizontal cylinder 45 mm in diameter and 80 mm in length. The axis of the horizontal cylinder is parallel to the VP and the two axes bisect each other. Draw the projections showing the curves of intersection. 12M

*** END***

Hall Ticket No:

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Question Paper Code: 18ME101

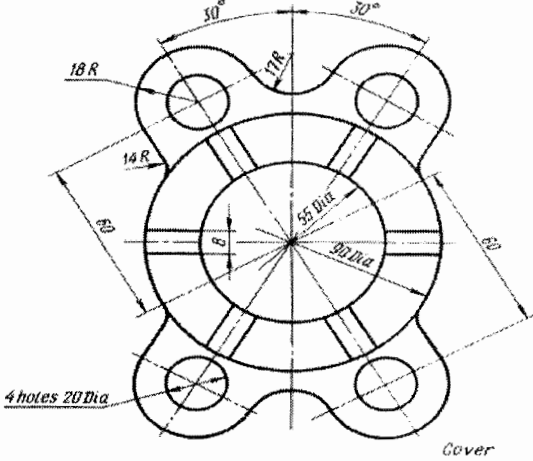
MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE, MADANAPALLE
(UGC-AUTONOMOUS)
B.Tech I Year II Semester (R18) Regular End Semester Examinations –JAN 2021
ENGINEERING GRAPHICS
(Common to ME, CSE)

Time: 3Hrs

Max Marks: 60

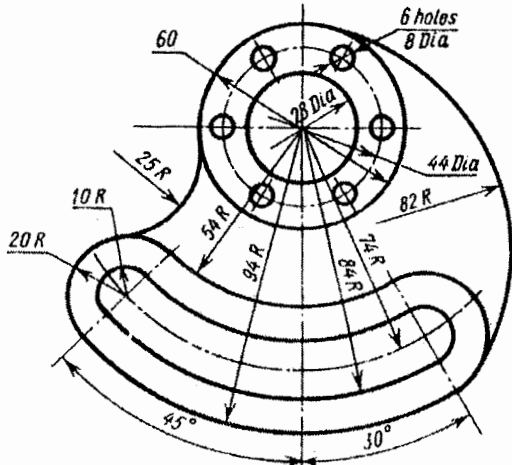
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All parts of Q.no 1 are compulsory. In Q.no 1 to 5 answer either Part-A or B only

Q.1(A) Draw the figure shown below using Auto CAD commands and dimension it. 12M



OR

Q.1(B) Draw the figure shown below using Auto CAD commands and dimension it. 12M



Q.2(A) Draw the projections of the following points on the same ground line XY; keeping the distance between the projectors as 50mm. Also state the quadrants in which they lie 12M

- 1) Point E, 50mm above the H.P. and 30mm in front of the V.P.
- 2) Point F, 40mm below the H.P. and 30mm behind the V.P.
- 3) Point G, 25mm above the H.P. and 35mm behind the V.P.
- 4) Point H, 30mm below the H.P. and 20mm in front of the V.P.

OR

Q.2(B) The line EF 70 mm long has its end E, at 10mm above the HP and 15mm in front of VP. Its Elevation and Plan measures 50mm and 60mm respectively. Draw the projections of the line and determine its inclinations with HP and VP. 12M

Q.3(A) A pentagonal pyramid side of base 25 mm and axis 60 mm is resting with one of its slant edge on the HP. The axis of the pyramid is parallel to VP. Draw its projections. 12M

OR

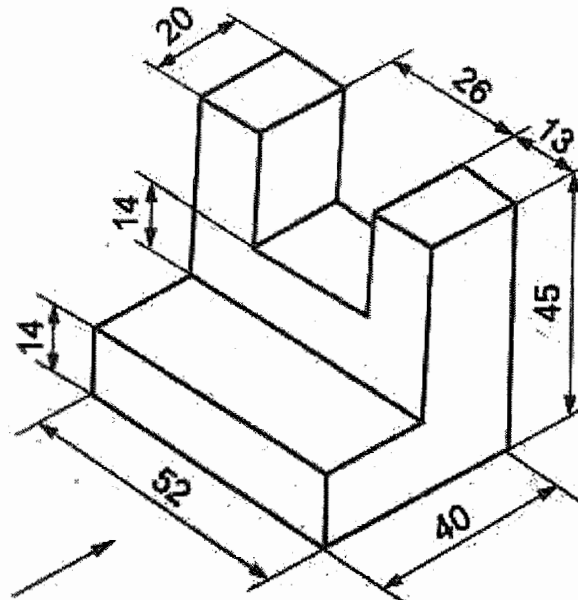
Q.3(B) A plate of square shape side 150mm is resting on one of its sides on the HP. It is tilted about that side in such a way that it appears as a rectangle with smaller side equal to half of the side of the square plate in TV. Draw the projections of the plate and find the inclination with HP. 12M

Q.4(A) A cylinder of base diameter 40 mm and height 80 mm rests on its base on HP. It is cut by section plane perpendicular to VP and inclined at 45° to HP and passing through the axis at a distance 40 mm from base. Draw the front view and sectional top view. 12M

OR

Q.4(B) A hexagonal prism of side of base 30 mm and axis 70 mm long is resting on its base on H.P. such that a rectangular face is parallel to V.P. It is cut by a section plane perpendicular to V.P. and inclined at 30° to H.P. The section plane is passing through the top end of an extreme lateral edge of the prism. Draw the development of the lateral surface of the cut prism. 12M

Q.5(A) 12M



Draw Front view ,Topview and sideview of the above digram

OR

Q.5(B) A vertical square prism, base 50mm side and height 100mm has a face inclined at 45° to the VP. It is completely penetrated by another square prism, base 40mm side and 90mm long, both the faces of which are equally inclined to the VP. The axes of the two prisms are parallel to the VP and bisect each other at right angles. Draw the projections showing lines of the inter section. 12M

*** END***

Hall Ticket No:

Question Paper Code: 18ME101

MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE, MADANAPALLE
(UGC-AUTONOMOUS)

B.Tech I Year I & II Semester (R18) Regular End Semester Examinations –JAN 2021

ENGINEERING GRAPHICS

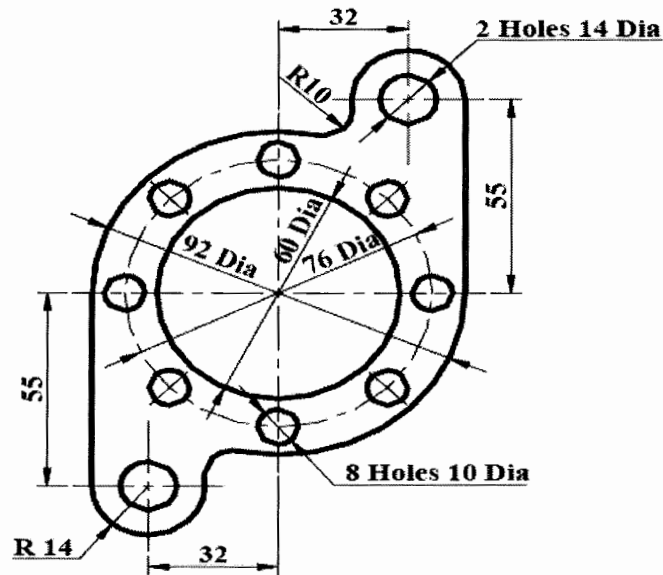
(Common to ME, CSE)

Time: 3Hrs

Max Marks: 60

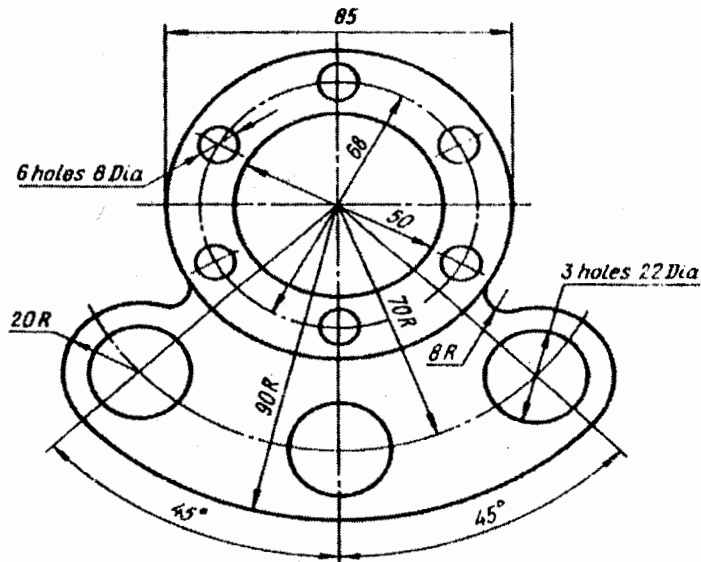
Attempt all the questions. All parts of the question must be answered in one place only.
All parts of Q.no 1 are compulsory. In Q.no 1 to 5 answer either Part-A or B only

Q.1(A) Draw the figure shown below using Auto CAD commands and dimension it 12M



OR

Q.1(B) Draw the figure shown below using Auto CAD commands and dimension it 12M



- Q.2(A) i. A point A is 30mm below H.P, 45mm behind V.P and 25mm in front of P.P. Draw front view, top view and left side view of the point. **6M**
 ii. A point B is 25mm above H.P, 40mm in front of V.P and 25mm in front of P.P. Draw front view, top view and left side view of the point. **6M**

OR

- Q.2(B) A line AB is 80mm length. Point A is 20mm above HP and 20mm In front of VP. Another end point B is 40mm above HP and 50mm In front of VP. Draw the projections and determine the inclination angles with HP and VP. **12M**

- Q.3(A) A square plane is 40 mm side is equally inclined to VP its surface is 45° to the HP. And its diagonal corner is in the HP and its diagonal makes 60° the VP. Draw its projections. **12M**

OR

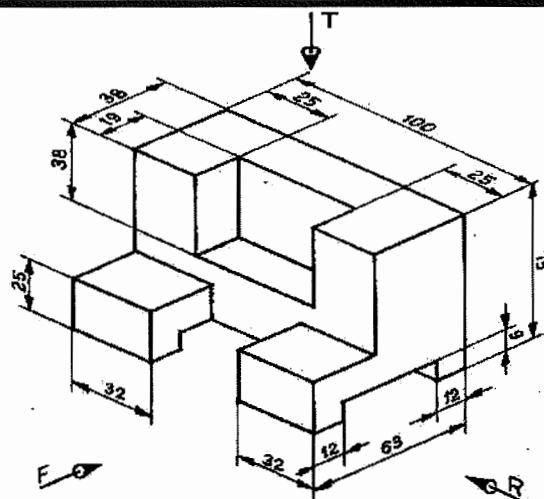
- Q.3(B) A Pentagonal Prism of base edge 30 mm and axis 60mm rests on an edge of its base in the H.P. Its axis is parallel to V.P and inclined at 45° to H.P. Draw its projections. **12M**

- Q.4(A) A cylinder of base diameter 40 mm and height 80 mm rests on its base on HP. It is cut by section plane perpendicular to VP and inclined at 45° to HP and passing through the midpoint of the axis, Draw the development of lateral surface of the solid. **12M**

OR

- Q.4(B) A pentagonal prism of base side 30mm and height 70mm is resting on its base on the ground such that one of its base edge is perpendicular to VP. It is cut by a plain perpendicular to V.P and 45° to H.P. and passing through axis 30mm above the base. Draw the front view, sectional top view and true shape of the solid. **12M**

- Q.5(A) **12M**



Draw front view, top view and side view of the above figure

OR

- Q.5(B) A cylinder having 70mm diameter and 90mm axis length is completely penetrated by a square prism of 40 mm base edge and 90 mm axis length. Both axes intersect and bisect each other. All faces of prism are equally inclined to HP. Draw projections showing curves of intersections. **12M**

*** END***

Hall Ticket No:

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Question Paper Code: 18ME101

MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE, MADANAPALLE
(UGC-AUTONOMOUS)

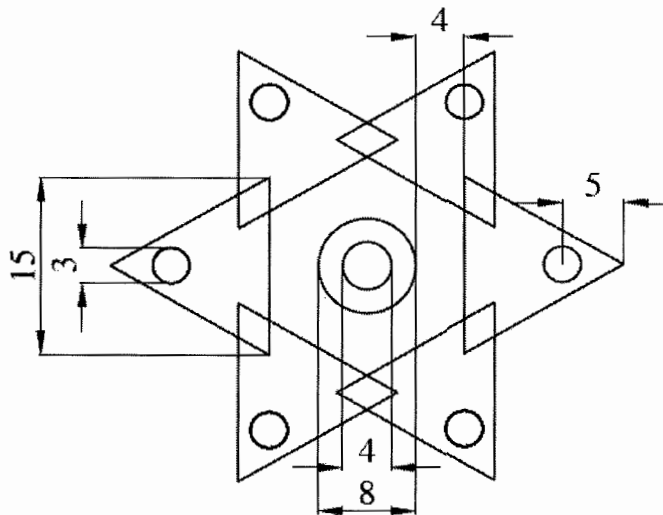
B.Tech I Year II Semester (R18) Regular End Semester Examinations –JAN 2021
ENGINEERING GRAPHICS
(CSE)

Time: 3Hrs

Max Marks: 60

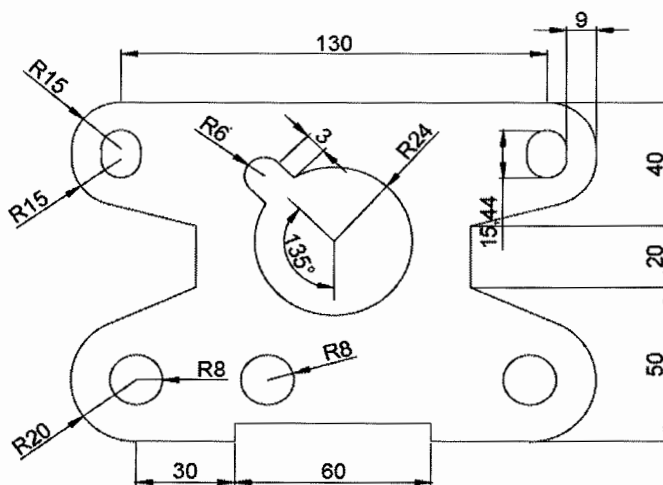
Attempt all the questions. All parts of the question must be answered in one place only.
All parts of Q.no 1 are compulsory. In Q.no 1 to 5 answer either Part-A or B only

Q.1(A) Draw the figure shown below using Auto CAD commands and dimension it. 12M



OR

Q.1(B) Draw the figure shown below using Auto CAD commands and dimension it. 12M



- Q.2(A) Draw the projections of the following points on the same ground line, keeping the projectors 40mm apart. 12M
- Point C, in the V.P. and 40mm above the H.P.
 - Point D, 25mm below the H.P. and 25mm behind the V.P.
 - Point E, 15mm above the H.P. and 50mm behind the V.P.
 - Point F, 40mm below the H.P. and 25mm in front of the V.P.

OR

- Q.2(B) The Top view of a 75mm long line measures 65mm. While the length of its Front view is 50mm. Its one end A is in H.P and 12mm in front of V.P. Draw the projections of AB and determine its inclinations with H.P and V.P 12M

- Q.3(A) Draw the projections of a circle of 50mm diameter resting in the H.P and a point A on the circumference. Its plane is inclined at 45° to the HP and the topview of the diameter AB making an angle of 30° with the VP. 12M

OR

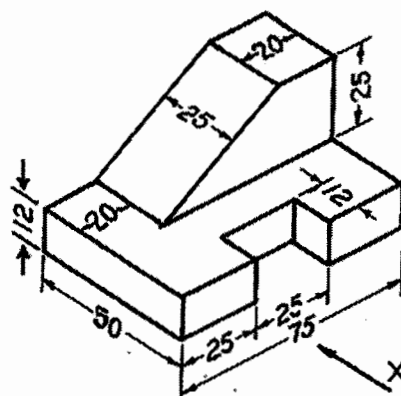
- Q.3(B) A Hexagonal Pyramid of Base side 30mm and axis 60mm is lying on a slant edge on the H.P with the axis parallel to V.P. Draw its projections. 12M

- Q.4(A) A cube of side 50mm long is resting on the ground with a vertical surface inclined at 30° to V.P. It is cut by a section plane perpendicular to V.P and inclined at 30° to H.P and passing through a point on the axis, 38 above the ground. Draw the front view, sectional top view and true shape of the section. 12M

OR

- Q.4(B) A cylinder of base 50mm and axis 60mm is resting on ground with its axis vertical. It is cut by a section plane perpendicular to V.P and inclined at 45° to H.P passing through the top of the generator and cuts all other generators. Draw its development of its lateral surface. 12M

- Q.5(A) Draw Front view ,Topview and sideviewfor the isometric view given below 12M



OR

- Q.5(B) A Vertical cylinder of 100mm diameter is completely penetrated by another cylinder of 70mm diameter with their axes bisecting each other at 90° . Draw their projections showing curves of penetration, assuming the axis of penetrating cylinder to be parallel to the V.P. 12M

*** END***

Hall Ticket No:

Question Paper Code: 18ME11T01

MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE, MADANAPALLE
(UGC-AUTONOMOUS)

B.Tech I Year II Semester (R18) Regular End Semester Examinations –JAN 2021
ENGINEERING GRAPHICS

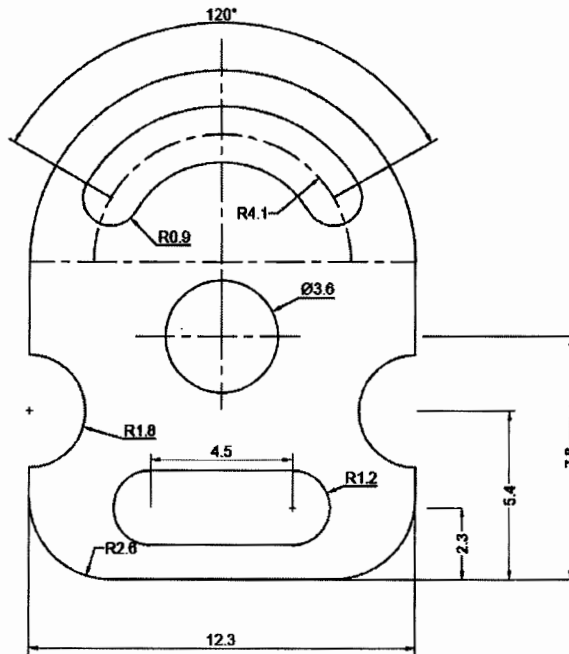
(CSE)

Time: 3Hrs

Max Marks: 60

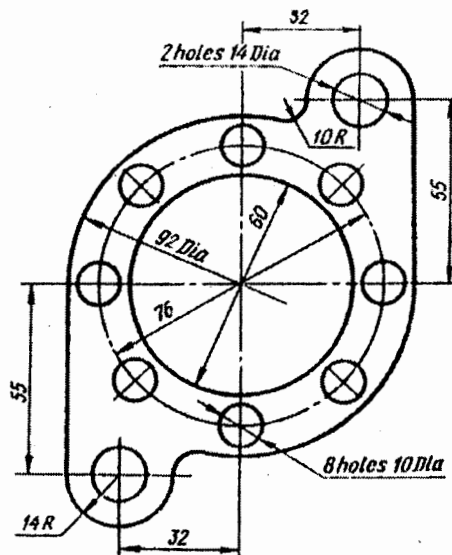
Attempt all the questions. All parts of the question must be answered in one place only.
All parts of Q.no 1 are compulsory. In Q.no 1 to 5 answer either Part-A or B only

Q.1(A) Draw the figure shown below using Auto CAD commands and dimension it. 12M



OR

Q.1(B) Draw the figure shown below using Auto CAD commands and dimension it. 12M



Q.2(A) A line AB 90mm long is inclined at 45° to HP and its Top view makes an angle of 60° to V.P. The end A is in H.P and 12mm in front of V.P. Draw its Front view and find its True inclination with V.P. 12M

OR

Q.2(B) i. A point G is 30mm above H.P, 45mm in front of V.P and 20mm in front of P.P. Draw front view, top view and left side view of the point. 6M

ii. A point H is 25mm below H.P, 40mm behind V.P and 30mm in front of P.P. Draw front view, top view and left side view of the point. 6M

Q.3(A) A Cylinder of base diameter 50mm and axis 70mm has a generator in V.P and inclined at 45° to H.P. Draw its projections. 12M

OR

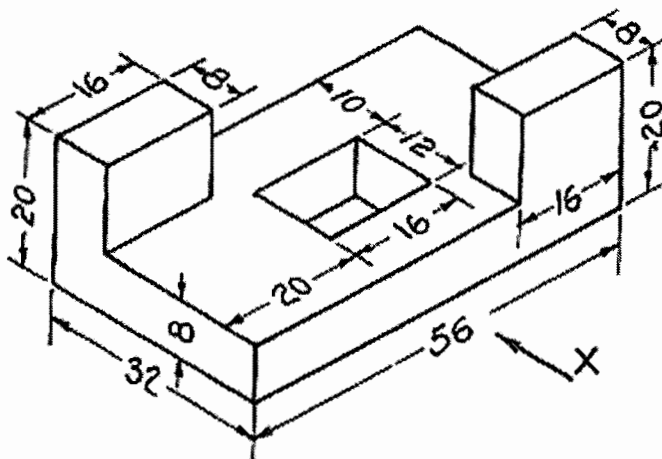
Q.3(B) A rectangular plate of negligible thickness having 150mm length and 100mm width is resting on one of its smaller side on HP. The surface makes an inclination of 30° to HP and smaller side makes an inclination of 60° to VP. Draw the projection of the plate. 12M

Q.4(A) A Hexagonal prism of base side 30mm and height 70 mm resting on its base on H.P with the rectangular face parallel to V.P. It is cut by a section plane inclined at 45 degrees to the H.P and passing though the mid-point of the axis. Draw the development of the lateral surface of the truncated prism. 12M

OR

Q.4(B) A Pentagonal prism of base edge 30mm side and axis 65mm has its base horizontal and an edge of the base parallel to V.P. A horizontal section plane cuts it at a distance of 25mm above the base. Draw its front view and sectional top view. 12M

Q.5(A) Draw Front view ,Topview and sideviewfor the isometric view given below 12M



OR

Q.5(B) A Vertical square prism base 50mm side, is completely penetrated by a horizontal square prism, base 35mm side, so that their axes intersect. The axis of the horizontal prism is parallel to the V.P., while the faces of the two prisms are equally inclined to the V.P. Draw the projections of the solids, showing lines of intersection. (Assume suitable lengths for the prisms). 12M

*** END***

Hall Ticket No:

Question Paper Code: 18ME101

MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE, MADANAPALLE
(UGC-AUTONOMOUS)

B.Tech I Year II Semester (R18) Regular End Semester Examinations –JAN 2021

ENGINEERING GRAPHICS

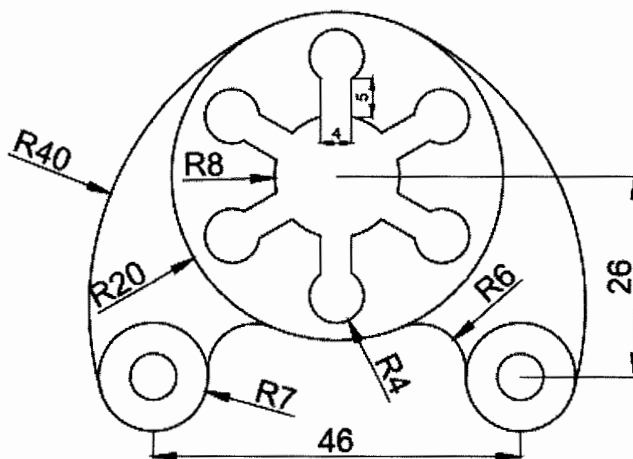
(CSE)

Time: 3Hrs

Max Marks: 60

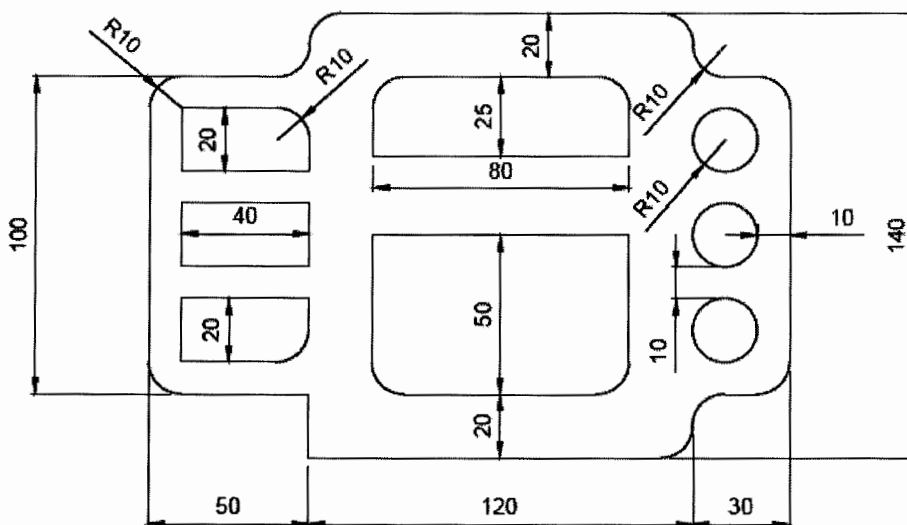
Attempt all the questions. All parts of the question must be answered in one place only.
All parts of Q.no 1 are compulsory. In Q.no 1 to 5 answer either Part-A or B only

Q.1(A) Draw the figure shown below using Auto CAD commands and dimension it 12M



OR

Q.1(B) Draw the figure shown below using Auto CAD commands and dimension it 12M



- Q.2(A) i. Two points F and G are on H.P. The point F being 15mm in front of V.P, while G is 20 behind V.P. The line joining their top views makes an angle of 45° with xy. Find the horizontal distance between two points. 6M
- ii. A point M is 15mm above H.P, 10mm in front of V.P and 10mm in front of P.P. 6M
Draw front view, top view and left side view of the point.

OR

- Q.2(B) A line CD 80mm long is inclined at an angle of 30° to H.P and 45° to V.P. The point C is 20mm above H.P. and 30mm in front of V.P. Find the apparent inclinations and also draw the traces. 12M

- Q.3(A) An Equilateral triangular plane ABC of side 40mm has its plane parallel to V.P and 20 away from it. Draw the projections of the plane when one of its sides is (i) Perpendicular to H.P and (ii) Inclined at 45° to H.P 12M

OR

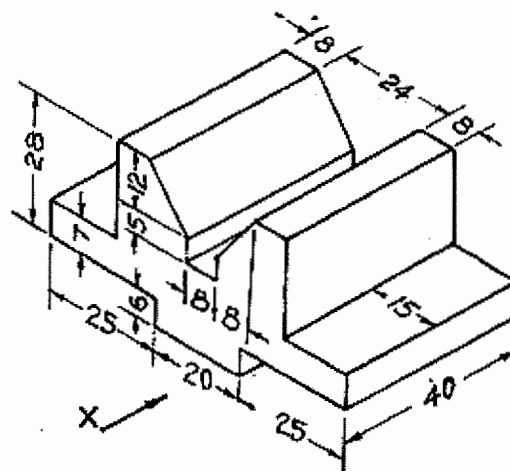
- Q.3(B) A Pentagonal pyramid of base side 30mm and axis 65mm has an edge of its base on the ground. The axis is inclined at 40° to the ground and parallel to V.P. Draw its projections. 12M

- Q.4(A) A square prism side of base 40mm and axis 70mm long Its base is resting on HP and its face is equally inclined to VP. It is cut by section plane which is perpendicular to VP and inclined 45° to HP and passing through a point 25mm from the top of the axis of the prism. Draw front view, sectional top view and true shape of the square prism 12M

OR

- Q.4(B) A cylinder of base diameter 40 mm and height 80 mm rests on its base on HP. It is cut by section plane perpendicular to VP and inclined at 45° to HP and passing through the axis at a distance 40 mm from base. Draw the development of the lateral surface of the solid. 12M

- Q.5(A) Draw the front view, top view and side view for the figure shown 12M



OR

- Q.5(B) A cylinder having 70mm diameter and 90mm axis length is completely penetrated by a square prism of 40 mm base edge and 90 mm axis length. Both axes intersect and bisect each other. All faces of prism are equally inclined to HP. Draw projections showing curves of intersections. 12M

*** END***

Hall Ticket No: []

Question Paper Code: 18ME101

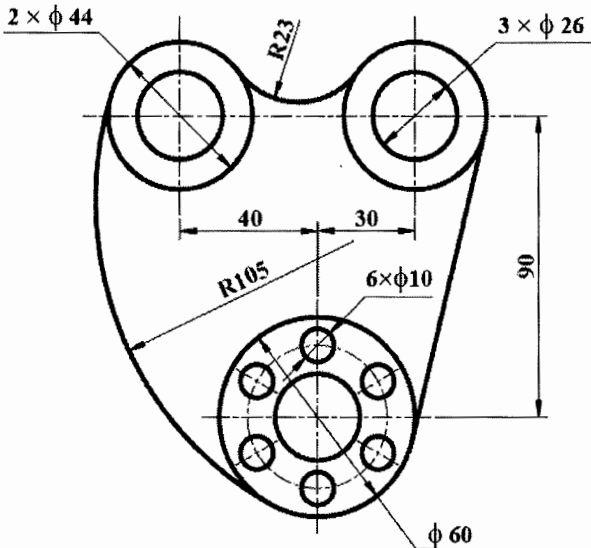
MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE, MADANAPALLE
(UGC-AUTONOMOUS)
B.Tech I Year II Semester (R18) Regular End Semester Examinations –JAN 2021
ENGINEERING GRAPHICS
(CSE)

Time: 3Hrs

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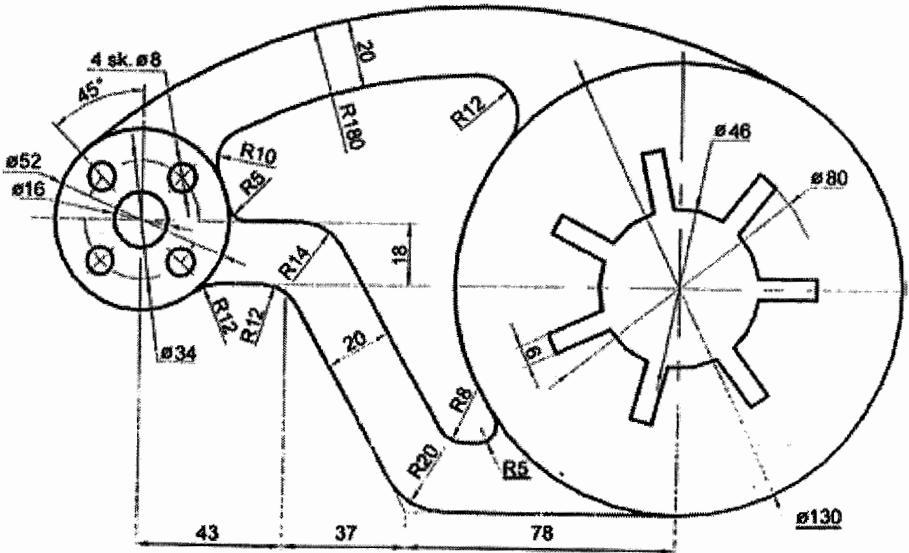
Attempt all the questions. All parts of the question must be answered in one place only.
All parts of Q.no 1 are compulsory. In Q.no 1 to 5 answer either Part-A or B only

Q.1(A) Draw the figure shown below using Auto CAD commands and dimension it 12M



OR

Q.1(B) Draw the figure shown below using Auto CAD commands and dimension it 12M



- Q.2(A) i. A point A is 30mm above H.P, 50mm in front of V.P and 25mm in front of P.P. 6M
 Draw front view, top view and left side view of the point.
 ii. A point B is 40mm below H.P, 50mm behind V.P and 30mm in front of P.P. Draw 6M
 front view, top view and right side view of the point.

OR

- Q.2(B) The line AB 70 mm long has its end A, at 15mm above the HP and 20mm in front of 12M
 VP. Its Elevation and Plan measures 50mm and 60mm respectively. Draw the
 projections of the line and determine its inclinations with HP and VP.

- Q.3(A) A circular lamina is resting on the HP on its circumferential point. It is inclined with 12M
 the HP such that its TV appears as an ellipse with minor axis 100mm and major axis
 150mm. Find the surface inclination with the HP as well the diameter of the
 circular lamina.

OR

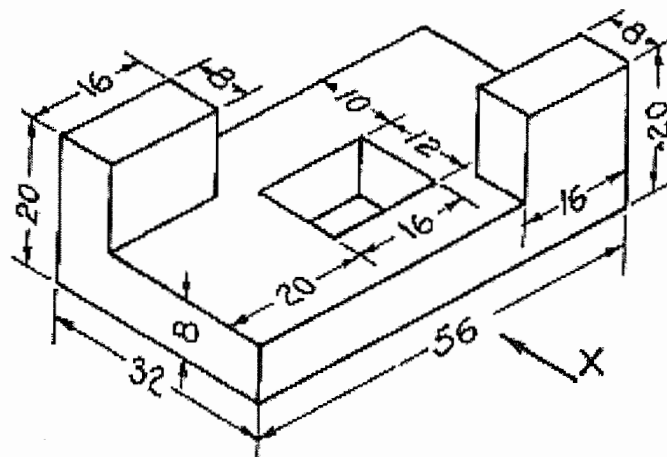
- Q.3(B) A Cylinder of base diameter 50mm and axis 70mm has a generator in V.P and 12M
 inclined at 45° to H.P. Draw its projections.

- Q.4(A) A cylinder of base diameter 40 mm and height 80 mm rests on its base on HP. It is 12M
 cut by section plane perpendicular to VP and inclined at 45° to HP and passing
 through the axis at a distance 40 mm from base. Draw the front view and sectional
 top view and true shape.

OR

- Q.4(B) A Hexagonal prism of base side 30mm and height 70 mm resting on its base on H.P 12M
 with the rectangular face parallel to V.P. It is cut by a section plane inclined at 45
 degrees to the H.P and passing though the mid-point of the axis. Draw the
 development of the lateral surface of the truncated prism.

- Q.5(A) Draw the front view, top view and left side view for the figure shown. 12M



OR

- Q.5(B) A vertical square prism, base 50mm side and height 100mm has a face inclined at 45° 12M
 to the VP. It is completely penetrated by another square prism, base 40mm side and
 90mm long, both the faces of which are equally inclined to the VP. The axes of the two
 prisms are parallel to the VP and bisect each other at right angles. Draw the
 projections showing lines of the inter section.

*** END***