Code No.: 12123 AS N/O

## VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS), HYDERABAD

## Accredited by NAAC with A++ Grade B.E. II-Semester Advanced Supplementary Examinations, September-2023 **Engineering Drawing-II**

(Common to Civil & Mech.)

Time: 3 hours

Max. Marks: 60

Note: Answer all questions from Part-A and any FIVE from Part-B

1	Stem of the question $VI$					
1./	What is the purpose of the section of solids?		M	L	CO	P
2.	State how the section of a solid is represented?		2	1	1	1
3.	State different methods of devel-		2	1	1	1
4.	State different methods of development of surfaces along with sketches.		2	1	2	
5.	of 20mm of 20mm		2	2		1
6.	of intersections of surfaces	20	2	1	2	1
	When two cylinders of the same diameter intersect with the ax perpendicular, the intersection curves will be of shape Sha	90			3	1
7.	perpendicular, the intersection curves will be of shape. Show by a sketch	h.	2	1	3	1
8.	Total Cult View and icomete:		2	2	1	
	Draw the isometric view of a semi-circle of 50mm diameter in the top view	v   2		a Turkiji	4	1
9.	In third angle projection, state how the		11)	2	4	1
0.	In third angle projection, state how the multi-views of an object were drawn.  Sketch the front view and to view of the control of the contro	2		1	5	1
	and top view of the solid in Fig. 1 with the free hand	2		1		1
. a)	Part-B (5×8 = 40 Manta)				5	1
	Name the section planes used for sections of solids with a sketch.  A square pyramid bear 40	1				
	H.P. and all the odge of the side and axis 65mm long has the	2		2	1	1
t	the axis. Draw its sectional top view, sectional side view and true shape of the section.	6	4	1	1	2
a) A	A semi-circle of 100 mm diameter is the development of a cone. Determine the dimensions of the cone.					
b) D	Pray the projections of the cone.	2	2	2	! 1	
po	braw the projections of the cone resting on the ground on its base and show in them the shortest path by which a point P, starting from a point on the point. The base of the cone is 60mm in diameter, the axis is 75mm long.	6	4	2	2	
a) De	efine key point w.r.t. intersections of solide					
) A	Vertical cylinder - Cao	2	1	3	1	1
pro	jection showing curves of intersection	6	4	3	2	
) Def	ine the Isometric axis and isometric line.					
	somethe line.	2	2	4		

FRONT ELEVATION

Fig.3

der having 50mm diameter and height of 30mm.  The the important assumptions used during the conversion of isometric is to orthographic views.  The Front view, top view and right-hand side view of Fig. 2  The student of a square pyramid having a front square of 20mm side and back are of 40mm at a length of 60mm has its axis perpendicular to the V.P. Is side of the square is inclined at 45° with H.P. It is cut by a section plane side of the large square side. Draw the projections of the frustum.  The diameter of 60mm and axis height of 50mm, cut by a sectional plane of diameter of 60mm and axis height of 50mm, cut by a sectional plane of diameter of 60mm and axis height of 50mm, cut by a sectional plane of the same of 60mm and axis height of 50mm, cut by a sectional plane of 40 mm and axis height of 50mm, cut by a sectional plane	2 6 4	4 4	5 5 1	1 2 2
ustum of a square pyramid having a front square of 20mm side and back are of 40mm at a length of 60mm has its axis perpendicular to the V.P. side of the square is inclined at 45° with H.P. It is cut by a section plane ling 40° with V.P. and passing through a point on axis 30mm from the face of the large square side. Draw the projections of the frustum.	4	•		
ustum of a square pyramid having a front square of 20mm side and back are of 40mm at a length of 60mm has its axis perpendicular to the V.P. side of the square is inclined at 45° with H.P. It is cut by a section plane sing 40° with V.P. and passing through a point on axis 30mm from the face of the large square side. Draw the projections of the frustum.		4	1	2
the lateral surface of a cone(right side part) with a	1			
ined at 55° with the H.P. passing through the cone's left corner.		4	2	2
swer any two of the following:				
penetrated by a cylinder of 50mm diameter, the axis of which is partitle to	4	4	3	2
by the isometric view of a frustum of a cone having a base diameter of	4	4	4	2
	4	3	5	2
֡	wer any <i>two</i> of the following:  Vertical cone, the diameter of the base of 75mm and an axis of 90mm long, benetrated by a cylinder of 50mm diameter, the axis of which is parallel to mm away from the cone. Draw the projections showing curves of ersections when the plane containing the two axes is parallel to the V.P. aw the isometric view of a frustum of a cone having a base diameter of mm and top diameter of 40mm. The height of the axis is 70mm.  The height of the axis is 70mm.  The height of the axis is 70mm.	vertical cone, the diameter of the base of 75mm and an axis of 90mm long, benetrated by a cylinder of 50mm diameter, the axis of which is parallel to mm away from the cone. Draw the projections showing curves of ersections when the plane containing the two axes is parallel to the V.P.  aw the isometric view of a frustum of a cone having a base diameter of 40mm and top diameter of 40mm. The height of the axis is 70mm.	vertical cone, the diameter of the base of 75mm and an axis of 90mm long, benetrated by a cylinder of 50mm diameter, the axis of which is parallel to mm away from the cone. Draw the projections showing curves of ersections when the plane containing the two axes is parallel to the V.P.  aw the isometric view of a frustum of a cone having a base diameter of 4 mm and top diameter of 40mm. The height of the axis is 70mm.	vertical cone, the diameter of the base of 75mm and an axis of 90mm long, benetrated by a cylinder of 50mm diameter, the axis of which is parallel to mm away from the cone. Draw the projections showing curves of ersections when the plane containing the two axes is parallel to the V.P.  aw the isometric view of a frustum of a cone having a base diameter of 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4

M: Marks; L: Bloom's Taxonomy Level; CO; Course Outcome; PO: Programme Outcome

Fig.2

Fig.1

:)	Blooms Taxonomy Level – 1	21%
1)	Blooms Taxonomy Level – 2	18%
11)	Blooms Taxonomy Level – 3 & 4	61%
iii)	Blooms Taxonomy Level 5 & 1	

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