Code No.: 12125 N/O

VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS), HYDERABAD

Accredited by NAAC with A++ Grade

B.E. II-Semester Main & Backlog Examinations, August-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

Part-A $(10 \times 2 = 20 \text{ Marks})$

Q. No	Stem of the guestian		3 3		
1.	What is the purpose of sectioning of solids?	M	L	CO) P
2.	How the true shape of a section is obtained?	2	1	1	
3.	What is meant by development of a solid?	2	1	1	
4.	Differentiate between parallel line and a solid?	2	1	2	1
5.	Differentiate between parallel line and radial line methods. Differentiate between interpreting of the control	2	1	2	1
6.	Differentiate between intersection of surfaces and interpretation of solids. Define the term line of intersection.	2	1	3	1
7.	Draw the isometric view of a rectangle of dimensions 30 X 50 mm in top view and front view.	2	1 2	3	1
8.	Differentiate between isometric scale and true scale.	2			- 47
9.	Define features in an isometric view.		1	4	1
10.	What are Missing views in orthographic projections?	2	1_	5	1
	Part-B $(5 \times 8 = 40 \text{ Marks})$	2	2	5	1
11. a)	State and explain the method of sections.				
b)	A square pyramid base 50 mm side and it is	2	2	1	1
	HP and all the edges of the base equally inclined to the VP. It is cut by a section plane perpendicular to the VP and inclined at 30° to the HP and bisecting the axis 20 mm from its base. Draw its sectional top view, sectional side view and true shape of the section.	6	4	1	2
2. a)	Explain the importance of development of surfaces in Engineering.	ligaria. Egantar			
0)	A nexagonal prism of base side 20	2	2	2	1
	perpendicular to VP and 50° to HP and passing through the axis at a height of 15 mm above the top base. Draw the development of the lower portion of the solid.	6	3	2	2
3. a)	Write a short note on applications of intersection of surfaces.				
))	A vertical cylinder of 70mm diameters	2	2	3	1
8	ngles Drove 41 c	6	4	3 .	2

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14. a)	Draw the isometric front view of a circle 50mm diameter using four center method.	2	2	4	1
b)	A sphere of 30mm diameter is centrally resting on a frustum of a cone of top and bottom diameters 40mm and 60mm respectively with a height of 70mm.Draw the isometric projection of the combined solids.	6	4	4	2
15. a)	State the rules to be followed while converting sometric views to orthographic projections.	2	2	5	1
b)	Draw the front view, top view and both side views of the V- block shown in the figure below. All dimensions are in mm.	6	3	5	2
	90° 10 25				•
16. a)	A cylinder of base diameter 60mm and height 60mm resting on its base on HP with its axis vertical. It is cut by a section plane parallel to HP and Perpendicular to VP bisecting the axis. Draw the sectional top view.	4	3	1	1
b)	- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4	4	2	2
17.	Answer any two of the following:			2	2
a)	the 80mm diameter. The axis of the penetrating cylinder is parameted both the HP and the VP and the axis are intersecting. Draw the projection showing curves of intersection.	ŧ	4	3	2
	11 : 1 : (0	4	3	4	2
b	Draw a isometric view of square prism of base side 40mm and height 60mm with its axis vertical.		2	5	2

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

- D	Blooms Taxonomy Level – l	13%
-/	Blooms Taxonomy Level - 2	24%
ii)	Blooms Taxonomy Level – 3 & 4	63%
1111	DIOUIIS I addition Level	

