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Reg.No.:	



VIVEKANANDHA COLLEGE OF ENGINEERING FOR WOMEN

[AUTONOMOUS INSTITUTION AFFILIATED TO ANNA UNIVERSITY, CHENNAI] Elayampalayam – 637 205, Tiruchengode, Namakkal Dt., Tamil Nadu.

Question Paper Code: 1004

B.E. / B.Tech. DEGREE END - SEMESTER EXAMINATIONS - March/April 2023

First Semester

Common to All Branches

U19GE101 – ENGINEERING GRAPHICS

(Regulation 2019)

Time: Three Hours

Maximum: 100 Marks

Answer ALL the questions

			Answer Al	LL the questions				
Knowledge Levels K1 – Remembering K3 – Applying (KL) K2 – Understanding K4 – Analyzing		K5 - Evaluating						
			K2 – Understanding	K4 – Analyzing	K6	K6 - Creating		
	_					(5 x 20 =	100 1	Marks)
Q.N	o.		Questions	S		Marks	KL	CO
1.	a)	reference line				20	K2	CO1
			ove HP and 15 mm in from					
			ove HP and 30 mm behind ow HP and 35 mm behind					
			ow HP and 20 mm in fror					
		E, 20 mm abo	ove HP and in VP.		9			
			. (OR)					
1		mm in front o	f the VP. The other end	10 mm above the HP at S is 65 mm above the H	P and	20	K2	CO1
			nt of the VP. Draw the p tions with the HP and VI	rojections of the line and P.	d find			
2. 3		axis length 50	mm when it rests on th	ism of base side 20 mn e ground on one of the of the foot to the ground and paral	edges	20	K2	CO2
			(OR)					
l			ase circle. Its axis is incl	tis 50 mm long touches Vined at 30° to VP and pa		20	K2	CO2
			1 J			4		
3. a	a)	A hexagonal p	prism of base side 25 m	nm and axis length 55 n	nm is	20	K2	CO3

(OR)

true shape of the section.

resting on HP on one of its bases with two of the vertical faces perpendicular to VP. It is cut by a plane inclined at 50° to HP and perpendicular to VP and passing through a point at a distance 12 mm from the top face. Draw its front view, sectional top view and

- b) A right circular cone of base diameter 50 mm and axis length 60 mm rests on its base on the HP. It is cut by a plane perpendicular to the HP and inclined at 60° to the VP. The shortest distance between the cutting plane and the top view of the axis is 8 mm. Draw the top view, sectional front view and the true shape of the section.
- 20 K2 CO4

K₂

CO₃

20

4. a) A hexagonal pyramid of base of side 25 mm and altitude 60 mm is resting vertically on its base on the ground with two of the sides of the base perpendicular to the VP. It is cut by a plane perpendicular to the VP and inclined at 45° to the HP. The plane bisects the axis of the pyramid. Draw the development of the lateral surfaces of the pyramid.

(OR)

- b) Draw the development of lateral surface of the lower portion of a cylinder of diameter 40 mm and axis 60 mm. The cylinder is cut by a plane inclined at 45° to HP, perpendicular to VP and bisects the axis.
- 20 K2 CO4
- 5. a) Draw the front, top, and right side views of the given fig.1.
- 20 K2 CO5

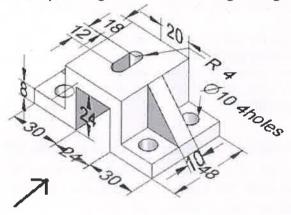


fig. 1 (OR)

b) Draw the isometric view from the given detailed views shown in 20 K2 CO5 figure.2

