ANURAG Engineering College

(An Autonomous Institution)

II B.Tech I Semester Supplementary Examinations, Jan/Feb-2024 SURVEYING AND GEOMATICS

(CIVIL ENGINEERING)

Time: 3 Hours					Max. Marks: 75			
Section – A (Short Answer type questions) Answer All Questions					B.T	Marks) Marks		
				Outcome	Level	0).4		
1.	Explain objective			CO1	L1	2M		
2.	List out the tape of	CO1	L1	3M				
3.		's rule for calculating area of fie	CO2	L2	2M			
4.		Horizontal equivalent and Conto	CO2	L1	3M			
5.	1	ed measurements in traversing?	CO3	L2	2M			
6.		y adjustment of theodolite.	CO3	L1	3M			
7.	Explain principle		CO4	L2	2M			
8.		nate of the simple curve.	CO4	L2	3M			
9.	Define photograp	CO5	L1	2M				
10.	write the differen	ice between map and mosaic?		CO5	L2	3M		
Answa	r all anestions	$(5 \times 10M = 50M)$						
	Answer all questions, each question carries equal marks. 11. A) Explain briefly about classification of surveying.					10M		
11. A)	Explain offerty at	OR		CO1	L3	10141		
B)	The following he	arings were observed where loc						
D)	suspected. Calcul							
	Line	FB	BB					
	AB	S 30 ⁰ 30' W	N 31 ⁰ 15' E	CO1	L3	10M		
	BC	S 60 ⁰ 45' W	N 59°30' E					
	CD	N 18 ⁰ 30' E	S 19 ⁰ 00' W					
	DA	S 60°30' E	N 60 ⁰ 00' W					
12. A)	In running fly levels from a bench-mark of RL 140.625, the following readings were obtained: Back sight1.255, 2.265, 1.295, 2.995 Fore sight0.265, 2.535, 1.395, 2.639 Calculate the levels by using HI Method. OR			CO2	L3	10M		
B)	Describe in detail about the finding of volume from spot levels and Contours?			CO2	L3	10M		
13. A)	Explain in detail about Repetition and Reiteration method OR			CO3	L3	10M		

CO₅

CO₅

L3

L3

10M

10M

B) The lengths and bearings of the four lines of a closed traverse ABCDE. Determine the length and bearing of the fifth line EA.

15. A) Explain briefly relief, tilt displacements and flight planning

B) Explain the methods of photographic mapping triangulation?

Line	Length	Bearing			
AB	194.1m	85°			
BC	201.2m	15°	CO3	L3	10M
CD	165.4m	285°30'		20	101/1
DA	172.6m	195°30'			
EA	?	?			
i) Explain the error		` ,	CO4	L3 L3	10M 5M
ii) what are the pri	nciples and applications in G	rs:			5M