С		Reg. No. :												
	Question Paper Code: U1405													
B.E. / B.Tech DEGREE EXAMINATION, APRIL 2024														
Professional Elective														
Civil Engineering														
21UCEV405- PHOTOGRAMMETRY														
(Regulations 2021)														
Dura	Duration: Three hours Maximum: 100 Marks								S					
		Answe	er AL	LQ	uesti	ons								
	PART A - $(5 \times 1 = 5 \text{ Marks})$													
1.	The lens used in aerial photogrammetry is having a maximum coverage CO1 - U capacity of (in angles)							- U						
	(a) 93^0 (b) 63^0	(c) 5	53 ⁰			(d)	98 ⁰							
2.	Difference in parallax c	an be obtained	l due	to									CO1	- U
	(a) Distance between zenith (b) Distance between bearing													
	(c) Distance between az	timuth (d) l	Dista	nce ł	oetw	een j	point	s sig	hts					
3.	have stable and precisely known internal geometries CO1 - U and very low lens distortions.													
	(a) Metric (b) N	Ion metric	(c)) Fra	med	((d) N	one	of th	ese				
4.	Assuming aero triangul	ation is comple	eted,	orth	o pho	oto c	reati	on st	ill re	quir	es		CO1	- U
	(a) Camera unknown resolution (b) A digital terrain model													
	(c) Solution of pass point coordinates) 2-D easure			ansf	orma	tion	base	d on	fidu	cial	mark	-
5.	Which of the following	is the pixel va	lue o	f gre	y sca	ale ii	nage	?					CO1	- U
	(a) 0 to 1 (b) 0 to	5 (c)	0 to	4		(d) 0	to 0	.5						
PART - B (5 x 3 = 15 Marks)														
6.	Explain the different Multiple frame camera in photogrammetry.							CO1 - U						
7.	Differentiate between vertical photographs and stereoscope.								CO3 - App					
8.	What do you mean Two-dimensional coordinate transformations?							CO	1 - L	J				

9. As a Civil Engineer segregate the considerations for DTM generation and CO3 - App Contour mapping.

10.	List the different principles of Satellite photogrammetry.	CO1 - U
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11.	(a)	Interpret briefly about the various computations of flight planning.	CO3 - App	(16)				
		Or						
	(b)	Identify the key features of Photographic overlaps.	CO3 - App	(16)				
12.	(a)	Explain briefly about the Vertical photographs in detail. Or	CO1 - U	(16)				
	(b)	Explain in detail about Photo coordinate measurement in detail.	CO1 - U	(16)				
13.	(a)	Demonstrate the salient features of Stereo plotters Classification in detail.	CO3 - App	(16)				
		Or						
	(b)		CO3 - App	(16)				
14.	(a)	Explain the various GPS Aero triangulations in detail. Or	CO1 - U	(16)				
	(b)	Explain about DTM generation and Contour mapping in detail.	CO1 - U	(16)				
15.	(a)	Construct the role of the Photogrammetric Scanner in Digital Photogrammetry.	CO3 - App	(16)				
Or								
	(b)	Analyze briefly about various principles of satellite photogrammetry in detail.	CO3 - App	(16)				