BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI					
(END SEMESTER EXAMINATION)					
CLASS:	M.Tech			SEMESTER : II	
BRANCH:	Remote Sensing			SESSION : SP/22	
SUBJECT: RS 511: AERIAL AND SATELLITE PHOTOGRAMMETRY & IMAGE INTERPRETATION					
TIME:	2 hrs			FULL MARKS: 50	
INSTRUCTIONS:					
1. The question paper contains 5 questions each of 10 marks and total 50 marks.					
2. Attempt all questions.					
3. The missing data, if any, may be assumed suitably.					
4. Before attempting the question paper, be sure that you have got the correct question paper.					
5. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall.					
Q.1(a)	ls imago interpretation i	ustified for delineation o	f lithology2 Support your answer wit	h roaconc	[2]
. ,	Is image interpretation justified for delineation of lithology? Support your answer wit How are faults different from joints? Illustrate the difference.			ii reasons.	[2]
					[2]
					[2]
	Cite an example.	what kind of landwaa /lar	dequar in parial images can be distin	awich ad with the	[4]
			ndcover in aerial images can be distir	iguisned with the	[4]
	element of Image Interp	relation circular size.			
Q.2(a)	Explain the importance of Parallax in photogrammetry.				[3]
					[3]
					[4]
Q2(0)	erussity deridi priotograp				[,]
Q.3(a)	What will be the focal length of a camera required to take aerial photo of scale 1:1000 at a flying [1]				
	height of 1500m above the ground?				[+]
	Derive the equation to estimate Relief Displacement analytically.				[2]
Q.3(c)	What is orthorectification? Explain with diagram.				[3]
					[4]
		,			
Q.4(a)	What is main difference	in the data acquisition m	odes in aerial and satellite based ap	proaches?	[3]
	What is B/H ratio? What is the acceptable range of B/H?				[3]
Q 4(c)				ation.	[4]
Q.5(a)	Classify UAVs based on t	heir range and uses.			[5]
	Specially during the online	ne mode of education, w	here conventional Laboratories are r	not accessible,	[5]
			e acquired images. Give the capabili		-
	software.				

:::::25/04/2022:::::