BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI (END SEMESTER EXAMINATION MO/SP20**)

CLASS: BRANCI	(END SEMESTER EXAMINATION MO/SP20**) M.SC I: GEOINFORMATICS	SEMESTER : SESSION : M		
SUBJECT: GI504R1 ADVANCED IMAGE ACQUISITION & INTERPRETATION FOR ENVIRONMENTAL MAPPING TIME: 03 HOURS 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. Tables/Data handbook/Graph paper etc., if applicable, will be supplied to the candidates 				
Q.1(a) Q.1(b)	Describe the differences between igneous, sedimentary, and metamorphi Discuss the different elements of an anticline with the help of a suitable		[CO1, BL2] [CO1, BL2]	[6] [4]
Q.2(a) Q.2(b)	band acquired in a particular season. Determine the spectral band and two surface features. Justify your answer with suitable reasons. [CO2, BL5]			[6] [4]
Q.3(a)			[4]	
Q.3(b) Q.3(c)	Differentiate between USGS GloVis and Bhuvan. What are the applications of Sentinel data?		[CO3, BL1] [CO3, BL5] [CO3, BL3]	[3] [3]
Q.4(a) Q.4(b) Q.4(c)	What is the full form of LIDAR? What is the name of the popular LIDAR da Write the main differences between LIDAR and RADAR. What is IMU? Explain the details of its components.	ta format?	[CO4, BL1] [CO4, BL5] [CO4, BL4]	[2] [3] [5]
Q.5(a) Q.5(b) Q.5(c)	Write the importance of different sensors. What is GRACE sensor? Write its applications. Describe the importance of high spatial and temporal resolution data.		[CO5, BL2] [CO5, BL1] [CO5, BL5]	[2] [3] [5]

:::::24/11/2022::::E