BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI (END SEMESTER EXAMINATION MO2022)

CLASS: BRANCH	(END SEMESTER EXAMINATION MO2022) MTECH/MUP : CSE/IT/SER/ARCH	SEMESTER : III/VII SESSION : MO/2022	
TIME:	SUBJECT: RS520R1 REAL-WORLD OPERATIONALISATION O 03 Hours	F GIS & GNSS 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)	What do you mean by georeferencing? What are the inputs required for data?	or georeferencing any spatial [CO1, BL-2]	[3]
Q.1(b) Q.1(c)	Give two-two example of non-spatial and spatial data. Differentiate different types of Geodatabases.	[CO1, BL-2] [CO1, BL-3]	[2] [5]
Q.2(a) Q.2(b) Q.2(c)	What is topology? why is so important for vector data model? Describe the role of RDBMS in GIS. Explain the topological errors associated with line feature with proper	[CO2, BL-2] [CO2, BL-3] diagram. [CO2, BL-3]	[3] [3] [4]
Q.3(a)	Illustrate outputs of Overlay, Clip and Dissolve operations on vector data with diagrams. [CO2-4, BL-3]		[4.5]
Q.3(b)			[4]
Q.3(c)	Give example of simple and complex query statements.	[CO2, BL-2]	[1.5]
Q.4(a) Q.4(b) Q.4(c)	What is broadcast ephemeris? What are the advantages of satellite-based positioning? How does the atmosphere affect satellite-based positioning accuracy effect be minimized?	[CO1 BL-2] [CO1 BL-2] y? How can the atmospheric [CO3 ,BL-4]	[2] [3] [5]
Q.5(a) Q.5(b) Q.5(c)	What is the Mean Sea Level? What is the DOP? Write its significance. Compare WGS-84 datum with Everest 1956 datum .	[CO3-4, BL-2] [CO3, BL-2] [CO4 ,BL-4]	[2] [3] [5]

:::::21/11/2022:::::E