BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI (MID SEMESTER EXAMINATION MO/2023)

CLASS: B TECH SEMESTER: VII
BRANCH: OE-CIVIL SESSION: MO/2023

SUBJECT: GI501 PRINCIPLES OF REMOTE SENSING

TIME: 02 Hours FULL MARKS: 25

INSTRUCTIONS:

- 1. THE QUESTION PAPER CONTAINS 5 QUESTIONS EACH OF 5 MARKS AND TOTAL 25 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

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Q.1(a) Q.1(b)	What is Remote Sensing? Difference between scattering and transmission. Explain in detail with a diagram about the different steps of the image acquisition process							[2] [3]	CO CO1 CO1	BL BL1 BL3
Q.2(a) Q.2(b)	Short note on Atmospheric Window Compare the Sun Synchronous and Geo Synchronous Satellite							[3] [2]	CO1 CO2	BL2 BL2
Q.3(a)	Explain in detail the mechanism of whisk broom and push broom scanners with the							[2]	CO2	BL3
Q.3(b)	illustration What do you understand about hyperspectral satellites and write down the advantages over multi spectral satellites?							[3]	CO2	BL2
Q.4	Line 1 53 Line 2 56	ormat with the 3and1 3 62 21 5 32 44 5 54 73		nd2 4	2 56 10	Band3 93 34 55 85 43 33 21 27 38		[5]	CO3	BL3
Q.5(a) Q.5(b)	What do you understand by Open Data Sources. Explain any one Open Data Source useful for RS Data.							[2] [3]	CO5	BL1 BL2

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