BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI
(MID SEMESTER EXAMINATION SP/2025)

CLASS: B.TECH **SEMESTER : IV**
BRANCH: ECE/CHEM OPEN ELECTIVE(OE) **SESSION : SP/2025**

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**

		Marks	CO	BL
Q.1(a)	Which wavelength range of EMR is used to find out chemical composition of target object through remote sensing and what is that range?	[2]	CO1	BL2
Q.1(b)	Differentiate reflection and scattering. Which is more important in optical remote sensing?	[3]	CO1	BL3
Q.2(a)	What is spectral response?	[2]	CO1	2
Q.2(b)	Draw spectral response of any three major LU/LC features.	[3]	CO1	1
Q.3(a)	What do you understand by spatial resolution? Explain its relevance.	[2]	CO1	4
Q.3(b)	Bring out the difference between the multispectral scanners and Panchromatic scanners.	[3]	CO2	2
Q.4(a)	What is the difference between Wisk and Push broom sensors.	[2]	CO2	2
Q.4(b)	How are Sun Synchronous satellites different from Geo-synchronous satellites? Explain.	[3]	CO2	2
Q.5	Give a detailed classification of sensors.	[5]	CO2	1

::::::04/03/2025::::::E