

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

CLASS: BTECH
BRANCH: CSE/AI ML/CE

SEMESTER : VII/ADD
SESSION : MO/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
-

		CO	BL
Q.1(a)	Define Remote Sensing with suitable example.	[2]	1 1
Q.1(b)	Describe the 7 components of remote sensing from the energy source to the end user	[3]	1 2
Q.2(a)	With a suitable example, explain what active and passive remote sensing	[2]	2 2
Q.2(b)	Explain different types of resolutions.	[3]	1 2
Q.3(a)	Differentiate among geo-stationary, geo-synchronous, and sun-synchronous satellites	[3]	2 2
Q.3(b)	What is absorption, reflectance, and scattering?	[2]	1 1
Q.4(a)	What do you understand about electromagnetic radiation (EMR)?	[2]	1 2
Q.4(b)	Elaborate upon the open sources of remote sensing data	[3]	3 1
Q.5(a)	Discuss any two types of referencing schemes	[2]	3 2
Q.5(b)	What are the major components of Ground Segment	[3]	3 2

:::::23/09/2025 :::::M