JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT TEST -1 EXAMINATION- 2025

B.Tech-VII Semester

COURSE CODE (CREDITS): 22B1WCE731 (3)

MAX. MARKS: 15

COURSE NAME: REMOTE SENSING AND GEOMATICS

COURSE INSTRUCTORS: Akash Bhardwaj

MAX. TIME: 1 Hour

Note: (a) All questions are compulsory.

(b) The candidate is allowed to make Suitable numeric assumptions wherever required for solving problems

Q.No	Question	CO	Marks
Q1	A satellite sensor has the following specifications:	2	4
_	Spatial resolution: 10 m		1
	Spectral resolution: Visible, NIR and Radio waves		
	Swath width: 60 km		
	Temporal resolution: 5 days		
	Discuss the suitability of this sensor in terms of its characteristics and		
	possible applications.		
Q2	Explain the difference between geostationary orbit and sun-synchronous	1	3
	orbit with suitable diagrams.		
Q3.	What are atmospheric windows and why are they important in remote	1	2
	sensing?		
Q4.	A calm water body and a dense forest canopy are imaged by a satellite sensor.	1	3
	Discuss how specular and diffuse deflection will differ in these two cases.		
Q5	Discuss the suitability and applications of aerial photographs in	2	3
	military/defence reconnates ance and disaster management.		