



WEST BENGAL STATE UNIVERSITY

B.A./B.Sc. Honours 6th Semester Examination, 2022

GEOACOR14T-GEOGRAPHY (CC14)

Time Allotted: 2 Hours Full Marks: 40

The figures in the margin indicate full marks.

Candidates should answer in their own words and adhere to the word limit as practicable.

CATEGORY-A		
	Answer any one question from the following within 600 words	$10 \times 1 = 10$
1.	Explain the role of spatial and radiometric resolution in visual image interpretation. What are the special characteristics of water and vegetation in blue, green and NIR bands?	4+6
2.	Explain how remote sensing and GIS act as a coupled system for geographical studies. How GIS is related to DBMS?	7+3
	CATEGORY-B	
	Answer any four questions from the following within 150 words each	$5 \times 4 = 20$
3.	How does a GNSS Satellite Communicates ground based receiver unit?	
4.	Explain the concept of atmospheric window.	
5.	Explain how spatial data and non-spatial data integrate to make a GIS.	
6.	State the energy sources of remote sensing. How does it work?	
7.	Explain the role of sensor used in a Satellite.	
8.	State merits and demerits of raster data format.	

Explain the importance of multi-spectral satellite image.

9.

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CATEGORY-C

Answer any five questions from the following within 50 words each

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- 10. What do you mean by image classification?
- 11. How the band combination changes in preparing the standard FCC from IRS?
- 12. What is the important band combination used in IRS Satellite for mapping water bodies?
- 13. What is meta data? Give example.
- 14. What is the purpose of georeferencing?
- 15. Why turbid water appears in brighter tone than clear water on a standard FCC?
- 16. What are the different forms of Scattering?
- 17. How the image is enhanced?
- 18. What is atmospheric correction?
 - **N.B.:** Students have to complete submission of their Answer Scripts through E-mail / Whatsapp to their own respective colleges on the same day / date of examination within 1 hour after end of exam. University / College authorities will not be held responsible for wrong submission (at in proper address). Students are strongly advised not to submit multiple copies of the same answer script.

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