PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

MSc DEGREE EXAMINATION MAY 2024

(Third Semester)

Branch - ENVIRONMENTAL SCIENCE

REMOTE SENSING AND GIS IN ENVIRONMENTAL MANAGEMENT

Tiı	Time: Three Hours	Maximum: 50 Marks
SECTION-A (5 Marks) Answer ALL questions ALL questions carry EQUAL marks (5 x 1 = 5)		
1.	. Maps used to study surface elevations in a geographic ar (i) Topographic maps (ii) Heat maps (iii) General maps (iv) Population	
2.	2. Spectral signature is a function of (i) Pitch (ii) Wavelength (iv) None of th	
3.	3. The detectors in whisk broom sensors are (i) Double detectors (ii) Multi-beam (iii) Scatter detector (iv) Single dete	
4.	i) Lines (ii) Polygon (iii) Raster layers (iv) Vector layer	er
5.	7. The method of analyzing oceanic surfaces using satellite (i) Bathymetry (ii) Algorithm (iv) None of the	
SECTION - B (15 Marks) Answer ALL Questions		
6.	ALL Questions Carry EQUAL Marks (5 x 3 = 15) 6. a) Write a short note on scope of geospatial technology. OR	
7	b) Give short description on natural and man-made features.	
7.	7. a) Describe about history and development of remote sensing. OR	
0	b) Give a short account on advantages of remote sensing.	
8.	OR	
9.	b) What are sensors? Define and differentiate imaging and non –imaging sensors.	
7.	a) Describe about variables in GIS. OR	
	b) What are coordinate systems and projections in GIS?	
10.	a) Elaborate on habitat analysis using remote sensing. OR	
	b) Comment on applications of remote sensing in urbanization.	
		Cont

SECTION -C (30 Marks)

Answer ALL questions
ALL questions carry EQUAL Marks $(5 \times 6 = 30)$

11. a) Write an essay on "Changes occurred in the world after the arrival of geospatial technology".

OR

- b) Write a detailed description about earth topographic studies and its applications.
- 12. a) Differentiate between polar and geostationary satellites.

OR

- b) Elaborate on applications of electromagnetic radiations and principles involved in remote sensing.
- 13. a) Describe in detail about RADAR and Lidar system applications.

OR

- b) Define and describe about earth resource and meteorological satellites with examples.
- 14. a) Explain in detail about open source GIS consortium and its importance.

OR

- b) Give a detailed account on image processing and GIS packages.
- 15. a) Write an essay on "how does remote sensing and GIS contribute to the economic progress?".

OF

b) Write an essay on "GIS in disaster prevention and management".

Z-Z-Z

END