PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

MSc DEGREE EXAMINATION DECEMBER 2022

(Third Semester)

Branch - ENVIRONMENTAL SCIENCE

REMOTE SENSING & GIS APPLICATIONS IN ENVIRONMENTAL MANAGEMENT

	Time:	: Three Hours	41 - 44	Maximum: 50 Marks
		Answer	N-A (5 Marks) ALL questions	
		ALL questions ca	rry EQUAL mark	$(5 \times 1 = 5)$
1	(i)		ii) Vertical iv) Low	
2.	(i)		(ii) 1974 (iv) 1972	
3	. (i)		(ii) India (iv) Russia	
4	What is the full form of DEM? (i) Demographic Electric Model (ii) Digital Elevation Mosaic (iii) Digital Elevation Model (iv) Digital Electric Model			
5	(i)		highest velocity? (ii) Large Waves (iv) Rayleigh Wa	ives
			N - B (15 Marks)	
			ALL Questions Carry EQUAL Ma	orks $(5 \times 3 = 15)$
6.	a)	Discuss about the visual imag	ge with interpretatio OR	n key.
	b)	What is electromagnetic radia	tion (EMR)?	
7.	a)	Classify and describe about th	e sensors and its us OR	es.
	b)	Explain resolution and its type	es.	
8.	a)	Write a detailed account on Sa	AR and SLAR oper OR	ations.
	b)	Enlist the characteristics of R	ADAR signals.	
9.	a)	Explain in detail about GIS a	nd its components. OR	
-	b)	How accuracy enhancement u		
10.	a)	Describe the application of G	S and remote sensi	ng in forest management.
	b)	List out the application of GIS		magement

SECTION -C (30 Marks)

Answer ALL questions ALL questions carry EQUAL Marks

 $(5 \times 6 = 30)$

- 11. a) Explain in detail about the characteristics of remote sensing.
 - b) Analyse the aerial photography and photogrammetry with its application.
- 12. a) Describe the difference between the Whiskbroom scanner and Push broom scanner with neat diagram.
 - b) Tabulate the advantages and disadvantages of various remote sensing platforms.
- 13. a) Give an account on types of remote sensing.

OR

- b) Explain the principle of RADAR and its applications.
- 14. a) Elucidate the role of data integration in GIS.

OR

- b) Explain in detail about image processing in remote sensing.
- 15. a) Analyse the role of Remote sensing and GIS in LU/LC mapping.

OR

b) Elaborate the GIS application in disaster management.

Z-Z-Z

END