24U134	(Pages: 2)	Name :	
		Reg. No :	
FIRST SEMESTER	JG DEGREE EXAMINATION	, NOVEMBE	R 2024
	(FYUGP)		
	EL1 MN101 - GEOINFORMA	TICS - I	
	(B.Sc. Geology - Minor Course)		
	(2024 Admission - Regular)		
Time: 2.0 Hours			Maximum: 70 Marks
			Credit: 4
	Part A (Short answer questions)		
	questions. Each question carries	5 marks.	
1. Identify the key steps involved in editing GIS data.		[Level:1] [CO2]	
2. Describe the characteristics of thematic maps.		[Level:2] [CO4]	
3. Define the term "overlaps" in the context of aerial photography.		[Level:1] [CO5, CO6]	
4. Explain the factors that influence reflection of EMR by different surface features.		[Level:2] [CO5]	
5. Identify the key elements involved in designing a map.		[Level:1] [CO4]	
6. Describe the applications of oblique aerial photographs in urban planning.		[Level:2] [CO1, CO5]	
7. Identify the technologies used in Geoinformatics.		[Level:1] [CO1, CO4]	
8. Explain the significance of data processing in remote sensing.		[Level:2] [CO5]	
9. Describe how cylindrical, conical, and azimuthal projections differ.		[Level:2] [CO4]	
10. Describe how atmospheric particles	affect the scattering of EMR.		[Level:2] [CO5]
			(Ceiling: 24 Marks)
Par	t B (Paragraph questions/Problem	m)	
Answer all	questions. Each question carries	6 marks.	
11. Identify the significance of shape an	nd association in image analysis.		[Level:2] [CO5]
12. Describe how the spectral reflectance of soil can indicate its composition.		[Level:2] [CO5]	
13. Explain the benefits and limitations of mobile GIS.		[Level:2] [CO3]	
14. Identify the contributions of people in the functioning of GIS.		[Level:1] [CO2, CO3]	
15. Explain the ways in which maps represent location and extent.		[Level:2] [CO5]	
16. Identify the different regions of the Electromagnetic Spectrum.			[Level:1] [CO5]

17. Define the concept of stereoscopy and its significance.	[Level:1] [CO5]
18. Explain Wein's displacement law and its implications in physics.	[Level:2] [CO5]
	(Ceiling: 36 Marks)
Part C (Essay questions)	
Answer any <i>one</i> question. The question carries 10 marks.	
19. Summarize the importance of scale and principal point in the geometry of aerial	[Level:2] [CO5]
photographs.	
20. Discuss the contributions of key pioneers in remote sensing and how their work has	[Level:2] [CO5]
influenced modern practices.	
	(1 × 10 = 10 Marks)
