## INTRODUCTION TO GIS - CS/INF 2221

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DATE: 18.12.2023

1	Choose th	ne most appropriate answer. State the answer in the answer booklet: [4 m	arks
	i.	By 'spatial data' we mean data that has	
		A. Complex values	
		B. Positional values	
		C. Graphic values	
		D. Decimal values	
	ii.	Which one can be used as a best example to explain the raster data.	
		A. Air temperature	
		B. Soil salinity	
THE STATE OF		C. Elevation	
		D. All of the above	
	""	A process where a survey plan or hard copy is a map and is	
	III.	<u> </u>	
		represented digital medium using geo-referencing capabilities and	
		CARD tool is called.	
		A. Modulation	
		B. Demodulation	
		C. Digitization	
		D. Projection	
	iv.	What is 'Metadata'?	
	There is	A. It is 'meteorological data'	
		B. It is 'oceanic data'	
		C. A detail descriptions of the data itself	2
		D. It is 'contour data' Stone data	
	1	D. It is 'contour data'  - Has boundarie  - Uncountrois  - Counted  - Uncounted	
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		i led utom & the	7
	0	- Countries et temp presente	
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	vi.	Successful spatial analysis needs	
		A. Appropriate software	
		B. Appropriate hardware	
	(	C. Competent user	
		O. All of the above	
	vii.	Which is NOT characteristic of discrete objects?	
		They may include points, lines, and areas	
	В	They completely cover the space	
	C	They can overlap	
garage de		D. They can be counted	
	viii. C	Components of Geographic data are	
	Δ	Raster and Vector data	
	В	3. Attribute and Meta data	
	C	C. Spatial and attribute data	
	C	. Hardware, software, people and procedure	
2 a)	Write two (2	2) fundamental differences between?	[4 marks]
	i. Attril	bute and Spatial data, give examples.	
	ii. Rasto	er and Vector data model.	
b)		advantages that Geographic information Systems have over	er [3 marks]
	traditional p	1. State	
3		e metadata? Explain how the metadata is used to reduce th	
		and the impact that may have with respect to the legal implication	IS
	of GIS-based	decisions the government is making.	
		3. [1] 19 [2] [2] [2] [2] [3] [4] [4] [4] [4] [4] [4] [4] [4] [4] [4	
		<u>cs</u> (	CamScanner

Key components of 'spatial data' quality include

A. Positional accuracy

C. Logical consistency

D. All of the above 🗸

B. Lineage and completeness

v.