## SARDAR PATEL UNIVERSITY

M.Sc. Geoinformatics
SEM – II, March 2019

## Spatial Analysis and Modeling Sub code: PS02CGIN22

DATE: 20<sup>th</sup> March 2019 DAY: Wednesday TIME: 10:00 AM TO 1:00 PM TOTAL MARKS: 70

Q. 1		ose the correct answer. ch method is globally accepted for line for automatic Vectorization?			[80]	
(1)						
	(A)	Line thinning	• •	Both (A) & (B)		
	(B)	Line following	(D)	None of above		
(2)	Stati	cistical surface contain feature of dimension.				
	(A)	One D	(C)	Two D		
	(B)	Three D	(D)	Four D		
(3)	OCR	means optical reader.				
	(A)	CAD file	(C)	Both (A) & (B)		
	(B)	Character	(D)	None of above		
(4)	DEM	l =				
	(A)	Digital elevation model	(C)	Digital enlarged model		
	(B)	Distributed elevation model	(D)	Distributed enlarged model	•	
(5)	for T	hiessen polygon grow Line is	_to c	onnecting each pair of point		
•	(A)	perpendicular		Both (A) & (B)		
	(B)	Parallel	(D)	None of above		
(6)	In gr	avity model Larger the magnitude ( P	)	interaction between them.		
	(A)	> grater	(C)	= equal		
	(B)	<lessthan< td=""><td>(D)</td><td>None of above</td><td></td></lessthan<>	(D)	None of above		
(7)	To fi	nd centroid of irregular polygon		_ method is use.		
	(A)	Gravity	(C)	Both (A) & (B)		
	(B)	Trapezoid	(D)	None of above		
(8)	Мар	s tell us about any object				
	(A)	Where is it?	(C)	Both (A) & (B)		
	(B)	What is it?	(D)	None of above		
Q.2	Ansı	wer the following.(attempt any sever	ı, eac	h two marks)	[14]	
(1)	Write a short not on problem of saddle point for interpolation.					
(2)	What is higher level object in GIS?					
(3)	How to choose right tool for rasterisatioin / vectorization process?					
(4)	Define location –allocation & list five applications of it.					
(5)	Write and explain Reilly's law for retail gravitation model for GIS?					
(6)		List and explain any three application of Huff Model for GIS.				
(7)		What is conflict resolution in cartography model?				
(8)		Compare simple paper cartography & digital cartography.  Write note on sound analysis and its importance.				
(9)	VVIII	te note on sound analysis and its impu	n tant	C.	(P.T.O.)	

Ղ.3	(A)		
	(B)	GIS.  Write note on cut & fill, & view shade analysis with necessary diagrams.  OR	[06]
	(B)	List and explain different ways to classify spatial interpolation procedures with necessary example.	[06]
Q.4	(A) (B)	Explain complete rasterization process in detail.  Write note on route analysis with list of all possible impedances.  OR  Explain complete vectorization process in detail.	[06] [06]
Q.5	(A) (B) (B)	Write a note on gravity model for GIS.  Explain nearest neighbor hood analysis and spatial data mining.  OR  What is cartography overlay for line, point & polygon?	[06] [06]
Q. 6	(A) (B)	List and classified cartographic model type.  Draw and explain mountain cabin selection model flow chart in detail.  OR  What is model implementation & verification in GIS cartography?	[06] [06]

