[30]

SARDAR PATEL UNIVERSITY

M.Sc. GEOINFORMATICS SEM – II, April 2018

Spatial Analysis & Modeling(PS02CGIN22)

DATE:	11 th April, 2018	
DAY: V	/ednesdav	

TIME: 10:00AM TO 1:00 PM TOTAL MARKS: 70

		· · · · · · · · · · · · · · · · · · ·					
Q. 1	Choc	ose the correct answer.			[80]		
(1)	Stati	stical surface contain features of	c	limension values.			
	(A)	1 D	(C)	2 D , ,			
	(B)	3 D	(D)	None of above			
(2)	More than % slope consider as bad slope for civil construction.						
•	(A)	25	(C)	50			
	(B)	75	(D)	100	o .		
(3)	In Ti	In TIN model TIN = Irregular Network					
` '	(A)			Tested			
	(B)	Tropical	(D)	None of above			
(4)	Rout	e analysis provide best analysis perfo	orman	ce in type file format.			
(' '	(A)			Both (A) & (B)			
	(B)	Raster data	(D)	None of above			
(5)		is an equation for gravity m	odel i	n GIS.			
(-)	(A)			P _i P _i / d			
	(B)	P _i P _i		1/P _i P _i	<u> </u>		
				· · · · · · · · · · · · · · · · · · ·			
(6)	For index of random distribution following equation is use						
	(A)	No of points / areas	(C)	Both (a) & (b)			
	(B)	No of points X areas	(D)	None of above			
(7)	To fi	nd Centroids of irregular polygon		method is used.			
	(A)	Trapicone ·	(C)	Zonecone	•		
	(B)	Trapezoid	(D)	None of above			
(8)	In de	In deductive model Its move from general knowledge toanswer					
, ,	(A)	General	(C)	Both (a) & (b)			
	(B)	specific	(D)	None of above			
Q.2	Ansı	wer the following.(attempt any seve	n, eac	h two marks)	[14]		
(1)							
(2)	Wha	at is higher level object in GIS?					
(3)	Explain DEM model.						
(4)							
(5)							
(6)							
(7)							
(8)	i de la companya de						
(9)	Expl	ain concept of line intersect and its a	pplica	tion.			

Q.3	(A)	What is important of slope and view shade analysis in GIS? Explain each with necessary diagram	[06]
	(B)	Explain contour lines and TIN model in detail with schematic illustration OR	[06]
·	(B)	Explain main four problems of interpolation in GIS.	[06]
Q.4	(A) (B)	Discuss complete raster to vector conversation process step by step in GIS. Explain route analysis for GIS in detail with suitable example. OR	[06]
	(B)	What is location and allocation problem? Explain each characteristic of problem with example.	[06]
Q.5	(A) (B)	Explain gravity model for GIS with necessary example. What is "Thiessen polygon analysis"? explain in detail with neat diagram OR	[06]
	(B)	Explain with neat diagram systematics structure for spatial data mining.	[06]
Q. 6	(A)	Draw and explain mountain cabin model flow chart, explain each phase in detail.	[06]
	(B)	Explain cartography, and cyclic modeling process using suitable example. OR	[06]
	(B)	What is model implementation and verification in GIS?	[06]

Page 2 of 2