M. Sc. (GEOINFORMATICS) SEM – III (CBCS – 2019 COURSE): WINTER – 2021 SUBJECT : SPATIAL ANALYSIS & MODELING

Day Date	:] : c	Tuesday 4-01-2022. W-2021-21269	Time: 10:00AM-T01:00 P.M Max. Marks: 60
N.B.:	1) 2)	Attempt ANY FIVE questions. Figures to the right indicate FULL marks.	
Q.1	a)	Describe any three applications of buffer with example	es and diagrams if any. [06]
	b)	Both nearest neighbor analysis and Moran's I can apply do they differ in terms of input data?	y to point features. How [06]
Q.2	a)	You have been asked to produce a raster that shows the in each major watershed in Mulshi tehsil. Describe follow to complete this task.	
	b)	Describe neighbourhood operations with two examples	s. [06]
Q.3	a)	Explain how the viewing azimuth, viewing angle, view can change a 3-D perspective.	ving distance and z-scale [06]
	b)	How does an exact interpolation method differ from method?	on inexact interpolation [06]
Q.4	a)	How do IDW and kriging differ from each other?	[06]
	b)	Describe three applications of the least cost path analy	rsis. [06]
Q.5	a)	Differentiate between a binary model and an index mo	odel. [06]
	b)	Describe location – allocation analysis.	[06]
Q.6	a) b)	Write short notes on ANY THREE of the following: Filled DEM Regression models Thiessen polygon	[12]
	c) d)	Cost distance	