Name:

Enrolment No:



UNIVERSITY WITH A PURPOSE

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES Online End Semester Examination, May 2021

Course: Spatial Data Modeling and Analysis

Program: B. Tech CSE OGI Course Code: CSOG 2008 Semester: IV Time : 03 hrs. Max. Marks: 100

SECTION A

Each Question will carry 5 Marks
 Instruction: Write short / brief notes

S. No.	Question	CO
Q 1	State Tobler's first and second law of Geography and there application in Spatial Analysis.	CO2
Q2	Spatial Data Analysis is prone to various error due wrong data and perceptive. Illustrate any 5 types of spatial fallacies encountered during spatial analysis?	CO2
Q3	Elucidate with proper example the concept of spatial diffusion?	CO3
Q4	Restate the phenomena of Kriging? What is the major difference between Kriging and IDW?	CO3
Q5	"Spatial analysis need to undergo a series of rules and criteria's". List five spatial data criteria used in spatial analysis	CO2
Q6	State different kind of Topological errors addressed in spatial analysis.	CO2
	SECTION B	
1.	Each question will carry 10 marks	
	Instruction: Write short / brief notes	
Q 1	Elucidate various different analysis function present in QGIS for Spatial Data Manipulation	004
-		CO4
Q 2	Design a Route Model and explain network analysis performed for the following given data set. 140 2 3210 0 7 8 170 9 7 8 170 9	CO1
Q 3	Illustrate the role and architecture of spatial database in any GIS software	CO4
Q 4	Formulate the concept of Spatial Regression and its application in understanding the spread of Corona Virus in India.	CO3
Q 5	Explain with proper example different type of GIS Model used in any spatial analysis.	CO2

