
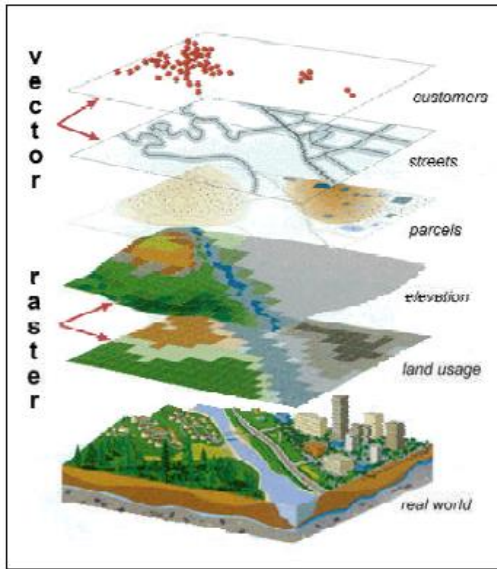


Name:			
Enrolment No:			
UPES End Semester Examination, December 2024			
Programme Name : M.Sc. Petroleum Geoscience		Semester : III	
Course Name : Remote Sensing and GIS		Time : 03 hrs	
Course Code : PEGS 8039		Max. Marks: 100	
Nos. of page(s) : 2			
Instructions: Answer all questions. There is internal choice in Section B and C			
SECTION A (4 Marks * 5 = 20 Marks) Answer all questions			
S. No.		Ma rks	CO
Q 1	Define the term spatial and temporal resolution	4	CO1
Q 2	What is Active and Passive remote sensing	4	CO2
Q 3	How surface features of Earth can be identified by satellite imagery?	4	CO1
Q 4	List out the elements of Image interpretation	4	CO2
Q 5	List out the key features of GIS technologies	4	CO3
SECTION B (10 Marks * 4 = 40 Marks) Answer all questions			
Q 6	What are spatial enhancement techniques? Explain High pass and low pass filter	10	CO2
Q 7	Evaluate the Indian Satellite system in Earth Resource mapping OR Explain the key features of Geographical Information System	10	CO3
Q8	Explain the steps of creating shapefile in ArcGIS from given figure	10	CO1



Q9	Explain the supervised and unsupervised classification techniques for surface mapping	10	CO3
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SECTION C
(20 Marks * 2 = 40 Marks)

Q 10	Evaluate Remote Sensing in Geological mapping and management OR Develop an integrated approach of RS & GIS in natural resource mapping and management	20	CO3
Q 11	Evaluate the different type of spatial and radiometric enhancement technique being used in image interpretation	20	CO4