UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Semester Examination, May 2019

Course: GIS for Planning   **Semester: VI**
Program: B.Plan   **Time 03 hrs.**
Course Code: BPLC362   **Max. Marks: 100**

Instructions:

	SECTION A		
S. No.		**Marks**	**CO**
Q 1	What are these Stand for:- I. GIS II. DEM III. DSM IV. DTED	**4**	**CO2**
Q2	Name the professions in which GIS can be used?	**4**	**CO1**
Q3	What are the top 4 skills a GIS technician must have?	**4**	**CO1**

Q4	A) GIS can be defined as
	   1. A tool
	   2. An information system
	   3. A mean for raising public awareness
	   4. A multibillion dollar industry
	   5. Any one of the above
	 B) People use GIS because
	   1. It comes free with the internal browser
	   2. It is useful and efficient in analyzing spatial data
	   3. It can read hard copy maps directly
	   4. It is used widely
	   5. It is linked directly to GPS satellites
	 C) In GIS the question 'where is it'? Is answered by _____ data & the question 'what is it' is answered by _____ data.
	 D) The question 'How many chemist are located within a specific distance from hospital'? can be answered in GIS using a _____ analysis.
		4	**CO2**

Q5	List out the important satellites, which are used in procuring data for urban planning.	**4**	**CO2**
	SECTION B		
Q6	What is the difference between File Geodatabase and Personal Geodatabase	**10**	**CO1**

Q7	What is buffering? What are the application of buffers?	**10**	**CO2**
Q8	How thematic maps can be used for analysis in planning sectors	**10**	**CO1**
Q9	What is the difference between CAD and GIS? What would an appropriate use be for either? Or List advantages and disadvantages of vector data	**10**	**CO1**
SECTION-C			
Q10	What is the importance of GIS in modern technology and in future? Explain will reference to 'Big data analytics?	**20**	**CO1**
Q11	You are given Khasra/Sajra Maps of the Dehradun district from which you need to prepare a base map for the purpose of GIS based property taxation of municipal corporation area of Dehradun: But the Problem is these maps are not to scale (Hand-drawn) maps. How will you resolve this problem? Elaborate the whole Procedure NOTE: Khasra/Sajra maps are in chunks of pieces which have to be joined in order to get complete property details of M.corp Area Or Data layers (eg. Land use map, soil map, road network map etc.) Are a fundamental means of organizing geographic data in almost all GIS? Why? Include example with your answer	**20**	**CO2**

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Instructions:

SECTION A			
S. No.		Marks	CO
Q 1	Define GIS. Differentiate aspatial and spatial data type	4	CO1
Q2	Name the professions in which GIS can be used?	4	CO1
Q3	What is georeferencing?	4	CO2
Q4	Write the full form of: A) GIS B) QGIS C) .GDB D) .SHP	4	CO2
Q5	What are the uses of RS and GIS in Planning?	4	CO1
SECTION B			
Q6	Identify & describe 5 functional elements of GIS include example and illustration.	10	CO2
Q7	What is the difference between File Geodatabase and Personal Geodatabase	10	CO1
Q8	Discuss the advantages and disadvantages of vector & raster data.	10	CO1
Q9	What is buffering? What are the application of buffers? Or List and explain various types of map projection	10	CO2
SECTION-C			
Q10	Data layers (eg. Land use map, soil map, road network map etc.) Are a fundamental means of organizing geographic data in almost all GIS? Why? Include example with your answer.	20	CO1
Q11	The RFP of a GIS based Masterplan for Dehradun Quotes that consultant needs to carry out a survey for preparation of ELU of Dehradun. Give a SOP for Preparing the ELU from hiring surveyors to delivering the final product to the authority? Or What is the importance of GIS in modern technology and in future? Explain will reference to 'Big data analytics?	20	CO2