

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Semester Examination, April/May 2018

Programme: B. Plan
Course Name: GIS for Planning
Course Code: BPLC 362
No. of page/s: 2

Semester – 06
Max. Marks : 100
Duration : 3 Hrs

SECTION A

Attempt All questions. All question carries 4 marks.

Answer in maximum 60 words for each question. **[20 Marks]**

S. No.	Statement of question	Marks	CO
Q. 1	Explain raster data analysis.	4	
Q. 2	What are the function of Data Base Management System?	4	
Q. 3	What are the data types in GIS?	4	
Q. 4	Explain various Hardware used in GIS.	4	
Q. 5	What are the technologies that support GIS?	4	

SECTION B

4 Questions of 10 marks each, out of which 4 Questions shall be compulsory and 1 Question have internal choice to attempt any one.

(Answer in max 200 words for each question). **[40 Marks]**

Q. 6	What are the components of GIS? Explain raster and vector data structure.	10	
Q. 7	How mobile mapping differs from conventional mapping?	10	
Q. 8	What are factors that influence size of grid cell in a raster dataset?	10	
Q. 9	What is Geo-relational data model? OR What are the advantages and disadvantages in GIS?	10	

SECTION-C

2 Questions of 20 marks each, out of which 1 Question shall be compulsory and 1 Question have internal choice to attempt any one.

(Each Answer shall be of maximum 500 words). **[40 Marks]**

Q. 10	Explain different types of overlay analysis used with vector data. Use neat sketches	20	
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	wherever required.		
Q. 11	<p>Rasterization of vector data is some time required in data preparation. What reason may exist for this? Argue why?</p> <p style="text-align: center;">OR</p> <p>List out proprietary, open source and free GIS software. What are the advantages of Open Source software?</p>	20	