



21/4/2016

DOON UNIVERSITY, DEHRADUN
Mid Semester Examination, 2016
School of Environment & Natural Resources (M.Sc.)
Course: ENR – 514: Geomatics

Time Allowed: 2Hours

Maximum Marks: 30

Note: Attempt All Questions from Sections A, B, C.

SECTION : A (Short Answer Type Questions/ to be answered in about 25/50/75/150 words.

Attempt any 10 Questions.

(Marks: 1 x 10=10)

1. What is an image?
2. Write the name of two satellites?
3. What is spatial data?
4. What is non spatial data?
5. What is pixel?
6. Write four applications where RS and GIS can be used?
7. What is vector?
8. What is raster?
9. What is GPS how it is helpful in RS and GIS?
10. Why do we need to understand Map?
11. What is Scale and its type
12. What is Contour and why it is important?

SECTION : B (Short Answer Type Questions to be answered in about 75/100/250 words.

(Attempt any 4 Questions)

(Marks: 2.5x 4=10)

1. Describe the basic principles of Remote Sensing?
2. Define Passive and Active sources of energy?
3. Why remote sensing is useful?
4. What is GIS how it is linked with RS?
5. What is Map orientation why it is important in survey?
6. Define Latitude and Longitude?
7. Describe small scale and large scale map?

SECTION : C (Long Answer Type Questions to be answered in about 750 words.

Attempt any two Questions.

(Marks: 5x 2=10)

1. Explain with figure the physics of remote sensing?
2. Define elements of GIS, link data sets and GIS analysis?
3. Describe with example how RS and GIS can be used in real world?