DOON UNIVERSITY, DEHRADUN

Second Semester, Mid Semester Examination, 2017

M.Sc. School of Environment & Natural Resources

Course: ENR – 514: GEOMATICS

Time Allowed: 3 Hour   *Maximum Marks: 30*

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

SECTION : A

Short Answer Type Questions. Attempt any 5 Questions. *(Marks: 5x2=10)*

1. What is pixel?
2. List out- map elements.
3. List out- photo elements in visual interpretation?
4. Define raster and vector data?
5. What do you mean by FCC and DN value?
6. Define types of scale?
7. What do you mean by resolution in remote sensing?
8. Give scientific definitions of Remote Sensing and GIS

SECTION: B   Attempt any 4 questions *(Marks: 4x3=12)*

1. What is electromagnetic spectrum ?
2. Why map is called for field workers, how it helps in surveying?
3. Define the principle of remote sensing with required diagram?
4. Define contour, spot height, north arrow?
5. Define longitude and latitude, how these are helping in mapping?
6. Define the relation of GPS and GIS helping in disaster Management?
7. What is change detection, how it is helping in monitoring and conservation?

SECTION: C (Long Answer Type Questions to be answered in about 750 words.
Attempt any two Questions.   *(Marks: 2 x4 =8)*

1. What do you mean by spatial and non-spatial data how it can be converted for analysis?
2. Define digitizing errors and how they can be fixed?

Or

Explain raster to vector conversion with all editing and building topology?