



KERALA AGRICULTURAL UNIVERSITY
B. Sc (Hons) Forestry 2016 Admission
VI Semester Final Examination-June 2019

Narm.3210

Geomatics (1+1)

Marks: 50
Time: 2 hours
(10x1=10)

I Match the following

- | | | | |
|----|------------------------------|---|------------------------|
| 1 | INSAT | a | Vector data |
| 2 | GLONASS | b | Triangulation |
| 3 | IRS | c | EMR from rough surface |
| 4 | X,Y coordinates | d | Tables, texts |
| 5 | Diffused reflection | e | GIS Software |
| 6 | Attribute data | f | Russia |
| 7 | Hyperspectral Remote Sensing | g | Kalpana-1 |
| 8 | ERDAS | h | more than 100 bands |
| 9 | GPS | i | Europe |
| 10 | Galileo | j | Cartosat-1 |

II Write Short notes on any FIVE of the following

(5x2=10)

- 1 Application of Remote sensing and GIS in forestry.
- 2 Accuracy and Precision.
- 3 Forest fire mapping.
- 4 GPS application in resource inventory.
- 5 Sensor.
- 6 Spectral Signature.
- 7 Photogrammetry.

III Answer any FIVE of the following.

(5x4=20)

- 1 GPS- its principle and how it works?
- 2 Remote Sensing in Indian context.
- 3 Different types of remote sensing systems.
- 4 Resolution and its types.
- 5 Effect of scattering in remote sensing
- 6 GIS and its components.
- 7 Supervised and Unsupervised classification.

IV Answer any ONE of the following

(1x10=10)

- 1 Reflectance behaviour of natural vegetation, soil and water with the help of neat diagram.
- 2 Principles and process of Remote sensing with a neat diagram.
