

KERALA AGRICULTURAL UNIVERSITY

B.Sc.Hons (Forestry) 2014 Admission
IIIrd Semester Final Examination-February -2016

Cat. No: Wild 2103

Title: Remote Sensing and GIS (1+1)

Marks: 50.00

Time: 2 hours

I a. State whether the following statements are "True or False".

(10 x 1=10)

1. Active sensor operates by emitting its own energy
2. Geo stationary satellites are used for telecommunication and weather forecasting purposes
3. Lansat, SPOT, MOS are Geo synchronous Meteorological satellite
4. Microwaves are not capable to penetrate cloud cover
5. Rocket is an example of Air based platform
6. NRSA is located at Bangalore

b. Match the following

- | | |
|-------------------|-----------|
| 7. LANDSAT | a) India |
| 8. SPOT | b) USA |
| 9. IRS | c) RADAR |
| 10. Active Sensor | d) France |

II Answer any Five questions

(5 x 2=10)

1. Active Remote sensing
2. Atmospheric windows
3. Spectral signature
4. Procedure to get multi spectral photograph
5. Plank's law in contest to remote sensing
6. Aerial cameras
7. Expand any two of the following with their functions
a) ISRO b) IRS c) NRSA

III Answer any Five questions

(5 x 4=20)

1. Write about the basic elements of aerial photo interpretation
2. Explain the Visual interpretation of remote sensing data
3. Discuss the type of orbits used for satellites
4. Satellite imageries are used in forest cover mapping and damage assessment-Discuss
5. Explain the elements of object recognition
6. Discuss the application of remote sensing in forestry and agriculture
7. Explain resolution and write about different types of resolution

IV Write essay on Any ONE

(1 x 10=10)

1. Discuss about the application of GIS in forestry
2. Enumerate the properties of EMR and describe its interaction with atmosphere and earth surface