

KERALA AGRICULTURAL UNIVERSITY

B.Sc (Hons.) Forestry. 2013 Admission
IIIrd Semester Final Examination- March-2015

Cat. No: Wild.2103

Title: Remote Sensing and GIS (1+1)

Marks: 50

Time: 2 hours

I) Fill up the blanks

(10 x 1=10)

1. _____ is the father of the Indian space programme
2. The total width of area on the ground covered by the scanner is called _____
3. _____ refers to the orientation of the electric field of electromagnetic energy
4. _____ is an element of a sensor that converts the electromagnetic energy into an electrical signal
5. _____ is an assembly of two or more points to form one continuous picture of the terrain

State True or False

6. Aryabhata was the first satellite to be launched
7. Passive remote sensing makes use of sensors that detect reflected EMR from natural sources
8. Expand APPLE and PSLV
9. Define vectorization
10. Define georeferencing

II Write short notes on any FIVE

(5 x 2=10)

1. Wave length
2. Spatial resolution
3. NRSA
4. Interpretation key
5. Geoinformatics
6. Grid
7. Plank's Law

III Write short essays on any FIVE of the following

(5 x 4 =20)

1. What are the advantages and limitations of remote sensing
2. What are the remote sensing satellites launched by India ? Explain briefly
3. Explain passive microwave remote sensing
4. Define GIS. Describe the key components of GIS
5. Describe the development of remote sensing in the middle age
6. What are the mosaics .Explain the different classification of mosaics
7. What is spectral signature .Explain its importance in remote sensing

IV Write essay on ANY ONE

(1 x 10=10)

1. Explain application of GIS in forestry
2. Explain the typical entire process of digital image processing
