

Total No. of Questions :8]

SEAT No. :

P2296

[4933]-204

[Total No. of Pages :2

M.Sc.

ENVIRONMENTAL SCIENCE

EVSC-204: Remote sensing and GIS

(2013 Pattern) (Semester - II) (Credit System)

Time : 3 Hours]

[Max. Marks :50

Instructions to the candidates:

- 1) Neat diagrams must be drawn wherever necessary.*
- 2) Figures to the right indicate full marks.*
- 3) All questions carry equal marks.*
- 4) Your are advised to attempt not more than 5 questions.*

Q1) a) Explain the concept of signatures in remote sensing.

b) Explain the different types of resolution.

Q2) a) Enumerate the stages in Remote sensing data acquisition.

b) Write briefly on Landsat series of satellites.

Q3) a) Explain the wave theory of electromagnetic energy.

b) Write a brief account on along the track scanning with its advantages.

Q4) a) Explain the spectral signatures of different earth objects and their characteristic.

b) Describe the steps involved in measurement of height on aerial photographs.

P.T.O.

Q5) a) Explain the vector data model.

b) Explain the digital terrain models.

Q6) a) Describe the various types of overlays operation in GIS.

b) What are the components of GIS?

Q7) a) Explain briefly the various type of spatial data analysis in GIS?

b) Describe the application of RS and GIS in water quality monitoring.

Q8) Write short notes on :

a) Scale factor in map projections.

b) Triangulated Irregular Networks (TIN).

EEE