

Total No. of Questions : 8]

SEAT No. :

[Total No. of Pages : 2

P1748

[5230]-204

M.Sc.

ENVIRONMENTAL SCIENCE

**EVSC - 204 : Remote Sensing and GIS
(2013 Pattern) (Semester - II)**

Time : 3 Hours]

[Max. Marks : 50

Instructions to the candidates:

- 1) *Solve any Five Questions from the following.*
- 2) *Neat and labeled diagrams must be drawn wherever necessary.*
- 3) *Figures to the right indicate fullmarks.*

Q1) Answer the following: **[10]**

- a) Explain the elements of microwave remote sensing, giving its advantages.
- b) What is meant by spectral resolution?

Q2) Write the answer in brief. **[10]**

- a) Explain the interaction of EMR with earth surface.
- b) Draw a neat diagram of spectral reflectance curve.

Q3) Answer the following. **[10]**

- a) Explain the working of push - broom scanner, giving its advantages.
- b) What is meant by sun- synchronous orbit? Give an example.

Q4) Write the Answer. **[10]**

- a) Explain the geometric characteristics of an aerial photograph.
- b) Discuss how stereo - photography of an area is accomplished.

Q5) Discuss the characteristics of. **[10]**

- a) Discuss the characteristic features of Azimuthal projection.
- b) Describe the basic entities in GIS with suitable examples.

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Q6) Write the answer. **[10]**

- a) Discuss the nature and characteristics of vector data with suitable example.
- b) Give atleast two merits and demerits of Rastor data models.

Q7) Answer the following. **[10]**

- a) Explain the concept of layring in GIS.
- b) Discuss the application of network analysis with suitable example.

Q8) Write short notes on. **[10]**

- a) Rayleigh scattering.
- b) Geo stationary orbit.

