[5228] - 214

M.A./M.Sc.

GEOGRAPHY

Gg - 209 : Geoinformatics - II

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

Time : 2½ Hours]   *[Max. Marks : 38*

Instructions to the candidates:

1) *Attempt any two questions from Q.1 to Q.4.*

2) *Question 5 and 6 are compulsory.*

3) *Figures to the right indicate full marks.*

Q1) a)   What is a GPS?   **[2]**

b)   Explain the significance of GPS coordinates as one of the major data source in geoinformatics.   **[4]**

c)   Define remote sensing and write a brief note on the international status of remote sensing.   **[4]**

Q2) a)   Define the term atmospheric window.   **[2]**

b)   Explain the relationship of spectral bands with atmospheric window.**[4]**

c)   Write a note on spectral signature.   **[4]**

Q3) a)   What is side overlap and forward overlap?   **[2]**

b)   Explain spherical aberrations and chromatic aberrations.   **[4]**

c)   Write a note on space segment and user segment of GPS.   **[4]**

Q4) a) Give spatial resolution of Landsat TM and ETM. **[2]**

b) Explain the fundamental concepts of GPS. **[4]**

c) Describe the spatial and temporal characteristics of IRS WiFs data. **[4]**

Q5) a) What is meant by platform in remote sensing? Explain any two types of remote sensing platforms. **[4]**

b) Explain the types of photographic products. **[5]**

Q6) a) Explain the elements of interpretation of an aerial photograph. **[4]**

b) Explain with suitable examples BSQ and BIL data formats. **[5]**

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