SEAT No. :

P4626

[Total No. of Pages :2

[4759] - 25

B.E. (Civil)

GEOINFORMATICS

(2008 Pattern) (Open Elective) (Semester - II)

Time : 3Hours]   *[Max. Marks : 100*

Instructions to the candidates:

1)   Answer any 3 questions from each section.

2)   Answers to the two Sections should be written in separate books.

3)   Neat diagrams must be drawn wherever necessary.

4)   Figures to the right indicate full marks.

5)   Assume suitable data, if necessary.

SECTION - I

Q1) a)   Explain interaction of EMR with Earth's Surface.   **[9]**

  b)   What is remote sensing? Explain the different stages of Remote Sensing?   **[9]**

OR

Q2) a)   Explain EMS. State the characteristics of different frequencies.   **[8]**

  b)   What are the elements of Visual Image Interpretation? Explain their significance and factors influencing them.   **[10]**

Q3) a)   What are the elements of Remote Sensing? Explain these in brief.   **[8]**

  b)   Explain in detail, characteristics of LANDSAT.   **[8]**

OR

Q4) a)   What is FCC? What is the significance of FCC in recognizing terrain features.   **[8]**

  b)   Short Notes on: **[8]**

    i)   Relief Displacement.

    ii)   Drainage Pattern.

Q5) a) Write in brief importance of remote sensing in water resources. **[8]**

   b) Explain in detail use of remote sensing in terrain analysis. **[8]**

<div align="center">OR</div>

Q6) a) Explain RS Application in canal irrigation with flow chart. **[8]**

   b) Describe with flow chart application of remote sensing in ground water assessment. **[8]**

<div align="center">

SECTION - II
</div>

Q7) a) What is GIS? Explain in detail its components. **[9]**

   b) Write notes on: **[9]**

   i)   Map Features.

   ii) Map scale and its importance.

<div align="center">OR</div>

Q8) a) Explain in brief history of GIS and its development. **[8]**

   b) Write notes on: **[10]**

   i)   Hardware and Software for GIS.

   ii) Map Resolutions.

Q9) a) What is a Map? Explain different types of Map Projection systems and its need? **[12]**

   b) Discuss errors in GIS. **[4]**

<div align="center">OR</div>

Q10) a) Waht is Geospatial Data Model? Explain in brief RDBMS. **[12]**

   b) Discuss in short Buffering. **[4]**

Q11) a) Write an essay on Data collection and input processing in GIS. **[10]**

   b) Explain Unsupervised Classification. **[6]**

<div align="center">OR</div>

Q12) a) What is GPS? Explain its importance in RS and GIS. **[8]**

   b) Explain in brief: **[8]**

   i)   Raster Model.

   ii) Digital Image Processing.

<div align="center">☛ ☛ ☛</div>