Total No. of Questions : 10]

SEAT No. :

P3136

[Total No. of Pages : 2

[5154]- 702
B.E. (I.T.)
GEO INFORMATICS SYSTEM (Elective - II)
(2012 Pattern) (Semester - I) (End Sem.) (414457 D)

Time :2½ Hours] *[Max. Marks :70*

Instructions to the candidates:

1) *Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8, Q.9 or Q.10*
2) *Figure to the right indicate full marks.*

Q1) a) Define GIS and explain fundamental operations of GIS. **[5]**

b) With example write scales of measurement. **[5]**

OR

Q2) a) Explain different types of map projections with neat diagram. **[5]**

b) Classify imaging sensor system. **[5]**

Q3) a) Draw and explain a theoretical schme of sensor target interaction. **[5]**

b) Write down steps to train the dataset. **[5]**

OR

Q4) a) What is geometric correction? When it is used. **[5]**

b) What is spatial filtering? What is the need? Explain. **[5]**

Q5) a) Why graphic data is represented in spatial data? Draw spatial data model with example. **[8]**

b) Explain any two transformation techniques in detail. **[8]**

OR

Q6) a) What is attribute data? What is the use of attribute data in GIS? **[8]**

b) What are sources of errors in GIS? Explain different types of errors in detail. **[8]**

P.T.O.

Q7) a) What are the types of raster GIS models? Explain it with suitable example. **[8]**

b) Compare vector and raster based data models with advantages and disadvantages. **[8]**

OR

Q8) a) Explain vector data analysis. **[8]**

b) What is GIS modeling? Explain any two basic elements of GIS modelling. **[8]**

Q9) Write short note on (any 2) **[18]**

a) Components of ITS

b) Analysis of traffic data in GIS

c) Open source GIS.

OR

Q10)a) Explain what are upcoming technologies effectively used for urban and municipal planning. **[9]**

b) Explain architecture of ITS. **[9]**