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200907

**POST GRADUATE DIPLOMA
Geo-Informatics**

Subject: Fundamentals of GIS and Digital Cartography

Subject Code: KPGE-101

Semester: First

September 2020

Theory (External): 35 Marks

Time: 03 hours

INSTRUCTIONS TO THE STUDENTS

1. Read the questions carefully and write the answers in the answer sheets.
2. Wherever necessary, the diagram drawn should be neat and properly labelled.
3. This questions paper comprises of 8 questions out of which student need to attempt any 4 questions.
4. All questions carry equal marks.
5. The time allotted will be 3 hours for examinations including time of downloading of question paper to emailing of answer books to the concerned Dean/IC.

ESSAY TYPE QUESTIONS

1. Describe the concept of Geospatial data using the figure provided below.

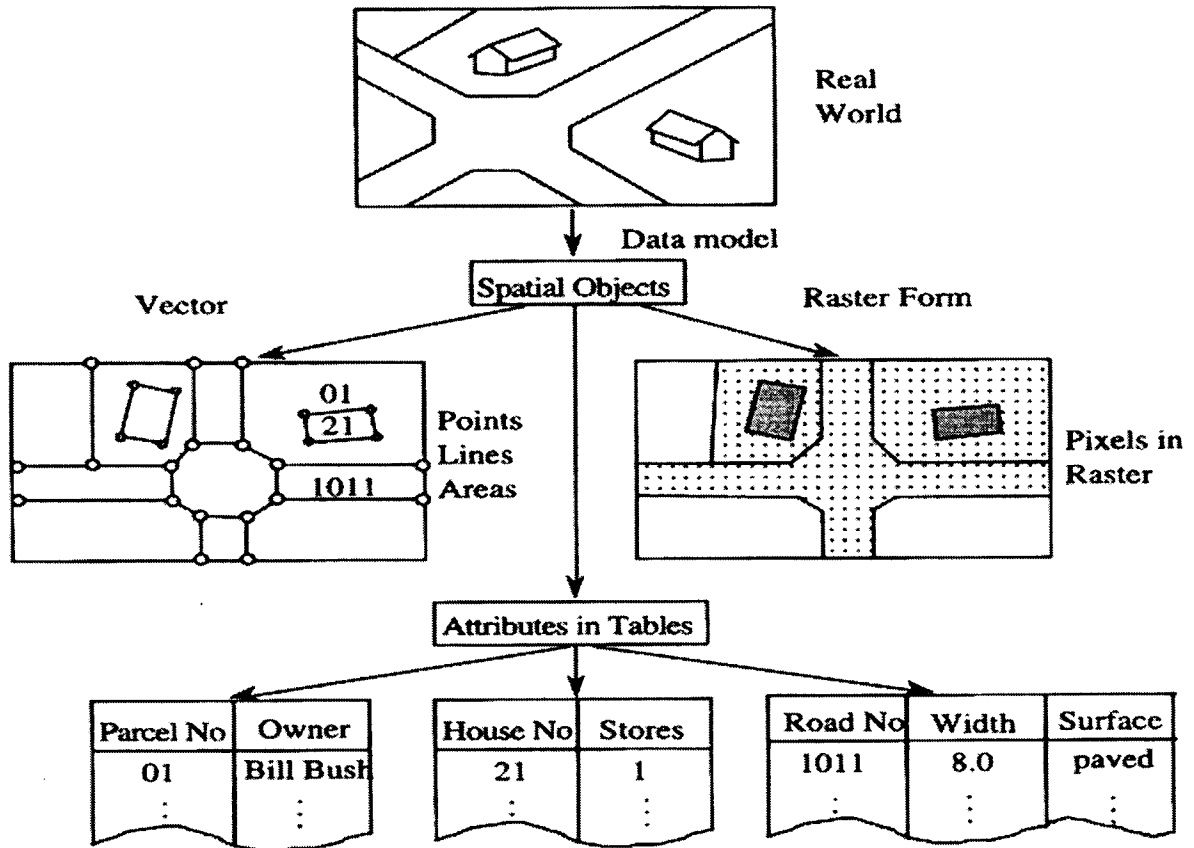


Figure 1.2 Concept of Geospatial data

2. Describe various Map Projections Systems, with their advantages and disadvantages.
3. Describe Primary, Secondary, Foreign and Composite keys in database.
4. Describe different types of Spatial data models used in GIS using appropriate examples.
5. What is overlay analysis? Describe various overlay methods used in GIS.

6. Describe different Geoprocessing tools used in GIS.
7. What is a National Spatial Data Infrastructure (NSDI)? Explain its uses.
8. Describe a real-world project where GIS can be used as a Decision Support System.

*****END OF PAPER*****