Name : ……………………………………………………

Roll No. : ……………………………………………………

Invigilator's Signature : ……………………………………

CS/PGD in Geoinfo/SEM-2/DGI-201/2011

2011
SPATIAL DATABASE ANALYSIS & MODELLING

Time Allotted : 3 Hours   Full Marks : 70

The figures in the margin indicate full marks.

*Candidates are required to give their answers in their own words
as far as practicable.*

GROUP – A
(Objective Type Questions)

1. Answer any *ten* of the following :   10 × 1 = 10

   A. State *True* or *False* for the following :

      i) Database security means the protection of the data against accidental or intentional loss, destruction or misuse.

      ii) Loss of integrity (data) is not a threat to data security.

      iii) Views are the subset of the database that is presented to one or more users.

      iv) Attributes are the properties we wish to model about an entity.

      v) A hierarchical database consists of a collection of records which are not connected to one another through links.
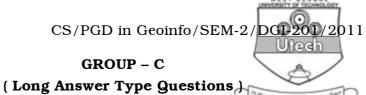
B.   Answer the following very briefly :

vi)   Define entity.

vii)   Define values & domain.

viii) What do you understand by DBA ?

ix)   Define DDL, DML & DCL.

x)   Write the command of DELETE table in SQL.

xi)   What do you understand by networking ?

xii)   Define LAN & WAN.

GROUP – B
(Short Answer Type Questions)

Answer any *three* of the following.   3 × 5 = 15

2.   Define and explain data & database administration.

3.   Explain database security. Explain the various threats to data security.

4.   State the involvement of DBA. State the assisting tools of DBA.

5.   Explain LAN & WAN with diagram.

6.   Explain imperative & functional languages with example.

GROUP – C

(Long Answer Type Questions)

Answer any *three* of the following.   3 × 15 = 45

7. Compare & explain hierarchical & network data models in detail.

8. Explain in detail the Relational Data Model.

9. Write the four commands in SQL from DDL with example from the relation and ten commands from DML with example from the relation.

10. Describe computer generations in detail.

11. Describe the role of DBA in detail.

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