

M. SC. (GEOINFORMATICS) SEM-II (CBCS) (2013 COURSE) :  
SUMMER - 2018

SUBJECT: GEODATABASE MANAGEMENT

Day : Thursday  
Date : 19/04/2018

S-2018-1112

Time : 02.00 PM TO 05.00 PM  
Max. Marks: 60

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**N.B. :**

- 1) Attempt ANY FOUR questions from Q. no. 1 to 5.
  - 2) Question no. 6 is **COMPULSORY**.
  - 3) Figures to the right indicate **FULL** marks.
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- Q. 1**
- a) What are characteristics of Database System? (06)
  - b) Explain in brief Database Model with proper diagram. Explain all the types of Database Model. (06)
- Q. 2**
- a) How the normalization will help in database design? Discuss with examples on different normalization levels. (06)
  - b) Explain Spatial Database. Discuss in detail the different types of spatial data types. (06)
- Q. 3**
- a) Explain different types of KEYS in detail. (06)
  - b) Explain the structure of SQL query and writes example SQL query statements using aggregate functions. Assume necessary suitable data. (06)
- Q. 4**
- a) Explain Oracle Architecture in detail using diagram. (06)
  - b) Explain the term Mapping Cardinality with proper example. (06)
- Q. 5**
- a) Explain ER model with an example. (06)
  - b) Explain Data Warehousing and Data Mining. (06)
- Q. 6** Write short notes on **(ANY THREE)**. (12)
- a) Spatial Data Standards (WMS, WFS and WCS)
  - b) Spatial Query
  - c) Codd's Rules
  - d) DML
  - e) SET Operators used in RDBMS

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