

## M.Sc Sem.-2 Examination

P - 408

Geoinformatics

June 2022

Time : 2-00 Hours]

[Max. Marks : 50

## Section 1

Attempt any three questions from Q1 to Q8 in Section 1

			Marks
Q1	A	Explain in detail SQL and SQL query processing. Define schema, integrity constraint, and primary key.	7
	B	Explain in detail Normalization and its forms 1NF, 2NF, and 3NF with examples	7
Q2	A	What is a database administrator and list down its responsibilities	7
	B	Describe the following SQL operators.  i. AND  ii. <>  iii. IS NULL  iv. % (Modulus)	7
Q3	A	Explain vector data structure and its advantages and disadvantages.	7
	B	Explain integrated data model (Spatial Database) and non-spatial relational structure.	7
Q4	A	What is topology and TIN model	7
	B	Explain nonspatial data models and their types.	7
Q5	A	What are data quality parameters and explain in brief their types	7
	B	Define Accuracy, Precision, Systematic and Random Errors.	7
Q6	A	Explain the parameters of the uncertainty of measurement.	7
	B	Mention different sources of errors.	7
Q7	A	Explain Normalization in brief in GIS with example.	7
	B	Explain the errors arising through processing.	7
Q8	A	Define errors in GIS and explain in brief the errors encountered during digitization.	7
	B	Explain attribute measurement scales and their types.	7

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Section 2

All the question of Section 2 are compulsory.

1. Full form of TIN.

- a) Triangulated Irregular Network
- b) Triangular Irregular Network
- c) Triangulated Irregular Node
- d) Triangular Irregular Node

2. Which of the following is not a comparison operator.

- a) =
- b) ==
- c) >
- d) !>

3. Which of the following operator is used for Data Manipulation Language.

- a) TRUNCATE
- B) REVOKE
- c) CREATE
- D) DELETE

4. Geometric objects of Vector data model consists of

- a) Point
- b) Line
- c) Polygon
- d) All of the above

5. Which of the following are denoted with different names and categories.

- a) Nominal Level
- b) Ordinal Level
- c) Interval Level
- d) Ratio Level

6. &= is which kind of operator?

- a) Bitwise OR
- b) Bitwise OR Assignment
- c) Bitwise AND
- d) Bitwise AND Assignment

7. The situation where the data or information is stored in the database at a particular moment of time is called

- a) Schema
- b) Data Encapsulation
- c) Instance
- d) Integrity constraint

8. During digitization when the line digitized doesn't connect properly with the neighboring line it should intersect with this

- a) Switchback
- b) Knots
- c) Loops
- d) Overshoot and undershoot

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