

MSc Sem.-2 Examination
410

Geoinformatics

May-2025

[Max. Marks : 70

Time : 2-30 Hours]

Que 1. 14

- (A) What is research, and why is it important? Explain different types of research.
(B) How do you identify a research problem? What are the key steps involved?

OR

- (A) What is a literature survey, and how does it help in research?
(B) What are the main research approaches? Compare qualitative and quantitative methods.

Que 2. 14

- (A) What is a sampling technique? Explain the different types of sampling methods used in research.

- (B) Discuss the various methods of data collection. What are the types of data sources used in research?

OR

- (A) How do you analyze data in research? Explain the steps involved in data analysis.
(B) What is report writing in research? Discuss the key elements and structure of a research report.

Que 3. 14

- (A) Explain the role of Mind Mapping and Brainstorming in organizing project ideas. How can they be used to develop a concept model?

- (B) Describe the steps involved in Resource Planning for a project. Include material requirement analysis, milestone setting, budgeting, and use of the Logical Framework.

OR

- (A) What is a SWOT analysis? How can it assist in defining the roadmap of a geospatial or technical project?

- (B) Discuss the importance of setting realistic time estimates and financial budgeting in project management. Give a practical example.

Que 4. 14

- (A) Explain the use of Gantt Charts and PERT Diagrams in monitoring the progress of a project. How do they differ in approach?

- (B) How would you verify and evaluate the expected vs. achieved project outcomes? Explain with reference to cross-mapping and milestone-based analysis.

OR

- (A) What are the methods to extract "lessons learned" from a project? How can these influence future project planning?.

- (B) Discuss the significance of documenting project deliverables and services for future use.

(P.T.O)

Que-5 Solve any seven of the following**14 Marks**

1. Data analysis is done before collecting the data. T/F
 2. A hypothesis is always proven to be true by research. T/F
 3. A literature review helps in understanding the research gap. T/F
 4. Sampling is not necessary if the population is very small. T/F
 5. In probability sampling, every member of the population has an equal chance of being selected. T/F
 6. The research design acts as a blueprint for the entire research process. T/F
 7. Which technique is primarily used in the initial ideation phase of a project?
 - A) SWOT
 - B) Logical Framework
 - C) Brainstorming
 - D) Gantt Chart.
 8. In a PERT Chart, the critical path:
 - A) Can be skipped if resources are short
 - B) Determines minimum project duration
 - C) Has the most flexible tasks
 - D) Is used only for financial planning
 9. A SWOT analysis does *not* include:
 - A) Threats
 - B) Strengths
 - C) Time budgets
 - D) Opportunities
 10. Gantt Charts represent:
 - A) Resource dependency matrix
 - B) Work breakdown structure
 - C) Task duration on a timeline
 - D) Organizational hierarchy
 11. What is a Milestone in project management?
 - A) A team member's promotion
 - B) A specific date for financial review
 - C) A significant point marking project progress
 - D) A delay in the critical path
 12. Cross-mapping is used to:
 - A) Design new features in GIS
 - B) Match implementation results to original plans
 - C) Track user login activity
 - D) Encrypt spatial databases
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