

KATHMANDU UNIVERSITY  
End Semester Examination  
February/March, 2025

Marks Scored:

Level : B.E.  
Year : II

02 MAR 2025

Course : GEOM 206  
Semester : II

Exam Roll No. :

Time: 30 mins.

F. M. : 10

Registration No.:

Date

02 MAR 2025

SECTION "A"

[20 Q. × 0.5 = 10 marks]

**Choose and encircle the most appropriate option from each set of choices**

- Which color theory states that there are three receptors in the retina for red, green and blue?
  - Opponent-Process Theory
  - Trichromatic Theory
  - Monochromatic Theory
  - Additive Color Theory
- The map prepared from scribing is:
  - Right-reading negative
  - Mirror-reverse negative
  - Mirror-reverse positive
  - Right-reading positive
- What is the role of displacement priority rules in generalization?
  - To classify features by importance
  - To maintain feature relationships despite positional shifts
  - To simplify data for thematic clarity
  - To prioritize aesthetic quality over accuracy
- What is the defining feature of an azimuthal stereographic projection?
  - True scale along meridians
  - Preserves shape and direction
  - Equal area representation
  - Great circle arcs as straight lines
- The 90<sup>th</sup> meridian form circular arcs in the:
  - Mollweide Projection
  - Peter's projection
  - Robinson Projection
  - Alber's Equal area projection
- Which of the following doesn't fall under marginal information?
  - Sheet Index
  - Grid Values
  - Contour Interval
  - Source
- Which of the following colors is used to denote contour above the snow line?
  - Black
  - Brown
  - Blue
  - Gray
- Which of the following plastics has the high dimensional stability after Polyester?
  - Cellulose Acetate
  - Polystyrene
  - Propylene
  - PVC
- Which of the following is not a graphic generalization?
  - Enlargement
  - Displacement
  - Enhancement
  - Simplification
- Which of the following elements determining map accuracy concerns with the individual elements of a dataset?
  - Completeness
  - Logical consistency
  - Currency
  - Lineage



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F. M. : 40

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SECTION "B"

*Attempt ALL questions.*

1. Define Maps. Mention different component of maps along with a neat and clean diagram. Explain how cartography and GIS complement each other in spatial data representation and analysis? [1+2+3]
2. What are the qualities that define an exceptionally well-designed map? Mention different color models and explain any two of them. [2+3]
3. Differentiate between grid and graticule. Provide the sheet index of cadastral map with sheet number 104-1145-02. [2+3]
4. Which organization is responsible for the global standardization of geographical names and what are its main roles? [1+3]
5. How do thematic maps differ from general reference maps? List different types of thematic maps and describe any four. [1+4]
6. Differentiate between natural origin and false origin. Considering the geographic location and shape, which projection system is considered as more appropriate for Nepal? Clarify your answer with appropriate reasons. [2+3]
7. What do you understand by map design? Describe primary and secondary factors that affect the design of a map and explain why is it important to consider these elements in a cartographic representation. [1+4]
8. Why is continuous map revision necessary? How do different revision techniques contribute to maintain the accuracy and relevance of spatial data? [2+3]

