

KATHMANDU UNIVERSITY
End Semester Examination
June/July, 2023

Marks Scored:

Level : B.E.

Year : II

Exam Roll No. :

Time: 30 mins.

Registration No.:

Course : GEOM 206

Semester : II

F. M. : 10

Date

7.8 JUL 2023

SECTION "A"

[20Q. × 0.5 = 10 marks]

Encircle the most appropriate answer.

- The range of visible portion of EMR by human eye is
a. 0.4-0.7 μm b. 0.4-0.6 μm c. 0.3-0.8 μm d. 0.5-0.9 μm
- Which color is formed by mixing equal amount of red and green color?
a. Black b. Yellow c. Magenta d. Cyan
- How many map sheets are required for mapping 2sq km area in 1:500 scale for cadastral mapping?
a. 16 b. 24 c. 32 d. 64
- Which one is not required quality of ink?
a. Fast hardening b. Water proof
c. High dimension of Stability d. Dark and viscus
- Which of the following is topographical map sheet of 1:25000 scale?
a. 091-16 b. 2785 01 c. 157-1325 d. None of the mentioned
- During transliteration of Romanization of Nepali 'आ' is written as...
a. a b. aa c. ā d. a:
- Contour lines with U shape with convexity towards lower ground indicates
a. Ridge b. Valley c. Mountain top d. Flat area
- Which feature is shown as profile view symbol in topographical map?
a. Building b. Temple c. River d. Road
- Which color is used in topographical base map of Nepal to show cultivation land?
a. White b. Green c. Yellow d. Cyan
- Which of the following is small scale map?
a. Cadastral map b. Topographical base map
c. Engineering map d. Wall map of the world
- Which map projection system preserves the shape of the feature?
a. Conformal b. Equivalent
c. Equidistant d. None of the mentioned

12. Which one is not included in Graphic Generalization?
a. Simplification b. Enlargement c. Displacement d. Selection
13. Grid and Graticule values are included in of topographical base map of Nepal.
a. Body of map b. Margin area c. Boarder area d. None of the mentioned
14. Generally new map is prepared instead of map revision, when details of map are changed.
a. 20% b. 25% c. 50% d. 60%
15. Which visual variable is very suitable for preparation of population density map?
a. shape b. texture c. value d. Orientation

Fill in the blanks.

16. The spheroid used in MUTM projection adopted by Nepal is
17. The Mercator projection system was developed inAD.
18. The easting value of longitude line 82°E for cadastral mapping in Nepal is.....
19. The combination of choropleth and an isoline map is called
20. The RGB decimal code [0,0,255] indicates color.

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18 JUL 2023

Level : B.E.
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Time : 2 hrs. 30 mins.

Course : GEOM 206
Semester : II
F. M. : 40

SECTION "B"

[6Q. × 4 = 24 marks]

Attempt *ANY SIX* questions.

1. What is map? Discuss the types of map and their use. [1+3]
2. What is color space? Discuss the role of color in map making with examples. [1+3]
3. Why map generalization is required? List out the different types of map generalization method. [1+3]
4. What is contour? Why it is used in map? List out the characteristics of contours. [1+1+2]
5. Discuss the types, steps and importance of map revision. [3+1]
6. What is map projection? Discuss the limitation of projection system adopted by Nepal. [1+3]
7. Write short note on (*ANY TWO*): [2+2]
 - a. Drawing & Scribing
 - b. Role of Cartography in GIS
 - c. Rules for name placement in map

SECTION "C"

[2Q. × 8 = 16 marks]

Attempt *ANY TWO* questions.

8. Why map sheet numbering is necessary? Explain the sheet numbering system adopted for cadastral maps of Nepal. [3+5]
9. What is map design? Explain the map elements of topographical base map of Nepal. [2+6]
10. Why symbols are used in map? Explain the various types of map symbols used in map. [2+6]