

KATHMANDU UNIVERSITY
End Semester Examination
May/June, 2022

Marks scored:

Level : B.E.

Year : III

Course : GEOM 310

Semester: II

Exam Roll No. :

Time: 30 mins.

F. M. : 10

Registration No.:

Date :

SECTION "A"

[20Q × 0.5 = 10 marks]

Encircle the most appropriate option.

1. Cadastre was started from
a. India b. Germany c. France d. England
2. In the historical period, the person measure and make a sketch of a house is
a. Tachhakar b. Chhetrakar c. Both d. Mujulkar
3. A systematic cadastral Survey was commenced only after the promulgation of land reform program in
a. 2021 B.S. b. 2019 B.S. c. 2022 B.S. d. 2020 B.S.
4. During classification of Industrial and Residential area if one parcel secured 15 marks in 50 then the parcel falls under the class of
a. 2 Ka b. 2 Gha c. 2 Kha d. 2 Ga
5. For a parcel with house or wall then it is provided
a. V embrace b. K embrace c. M embrace d. S embrace
6. Which instrument is not used for official survey by Cadastral survey branch?
a. Plane Table c. Electronic Distance Measurement
b. Unmanned Aerial Vehicle d. Total Station
7. Trigonometrical Station mismatch, position or not found is solved by
a. Yourself c. Both
b. Assist from Cadastral Survey Branch d. Topographic Branch
8. The ground area covered by a cadastral map sheet of 1:1250 scale is
a. 39.06 hectares c. 156.25 hectares
b. 6.25 hectares d. 31.25 hectares
9. Nepal used projection datum for cadastral mapping
a. Everest 1830 c. Everest Bangladesh
b. Everest India d. Everest China
10. Which color is used in Map sheet numbering system?
a. Black c. White
b. Black & White d. Red
11. Which order control point is used for densification?
a. 3rd order c. 4th order
b. 1st order d. 2nd order

12. Plotting error of 1:1250 is
a. 12.5 cm b. 32.5 cm c. 62.5cm d. 31.25 cm
13. Cadastral Survey Form 3 is
a. Field Book b. Terij c. Sresta d. Purja
14. During cadastre, surveying field book is prepared by
a. Prarambik Terij c. Loose sheet
b. Sretha d. Land owner Terij
15. Loose sheet is
a. Register land register c. Both a & b
b. Unregister land register d. None of the above
16. Doomsday book is
a. Plot register b. File c. Field book d. Terij
17. Which district is resurveyed from free sheet to trig sheet?
a. Makwanpur b. Kanchanpur c. Bhakatpur d. Lalitpur
18. Land unit ropani in hills and Bigha in terai is started by
a. Bir Shamsher c. Ram Shah
b. Chandra Shamsher d. Jayasthit Malla
19. 200 Ka is
a. Fractional system c. Both a & b
b. Filitation system d. Free numbersing system
20. The notification period of "Swabashi Jagga darta" is
a. 7 days b. 15 days c. 21 days d. 60 days

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

Course : GEOM 310
Semester : II
F. M. : 40

SECTION "B"

Attempt *ALL* questions. Assume suitable data wherever necessary.

1. Explain the current situation of the Land Information System. How does this approach will achieve the general public's need for a transparent, effective, and efficient cadastral system? [2.5+2.5=5]
2. What is the parcel's unique identification? How a parcel boundary is provided on a map? [2+3=5]
3. Describe in detail the trig and free map sheet numbering system. Identify other sheet values in the given Figure 1. [3+4=7]

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| | 111-1111-11 | |
| | | |

Figure 1

4. Calculate the coordinates of four corners of a cadastral map sheet 222-0022-02. How many map sheets of 1:1250 scale are required for mapping 200 km²? [4+2=6]
5. Explain the cadastral survey methods and compare their usefulness in detail for cadastral surveying and mapping? [3+3=6]
6. Differentiate between (*ANY TWO*): [3+3=6]
 - a) Analogue and Digital Cadastre
 - b) Sporadic and Systematic Cadastre
 - c) Isolated and seamless cadastral data
7. Write short notes on (*ANY TWO*): [2.5+2.5=5]
 - a) Types of Cadastre
 - b) Cadastral data model
 - c) Importance of Cadastral System

