



UNIVERSITY OF GHANA  
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DEPARTMENT OF TEACHER EDUCATION  
SCHOOL OF EDUCATION AND LEADERSHIP  
COLLEGE OF EDUCATION  
END OF YEAR TWO SEMESTER TWO EXAMINATIONS, 2023/2024  
B.ED. PROGRAMME

COURSE CODE: TEJS 254

COURSE TITLE: MAP USE AND INTERPRETATION

**Instruction:** Answer all questions in Section A and any three in Section B. All questions must be answered in the answer booklet.

Time: 2 hours

**SECTION A**  
[25 Marks]

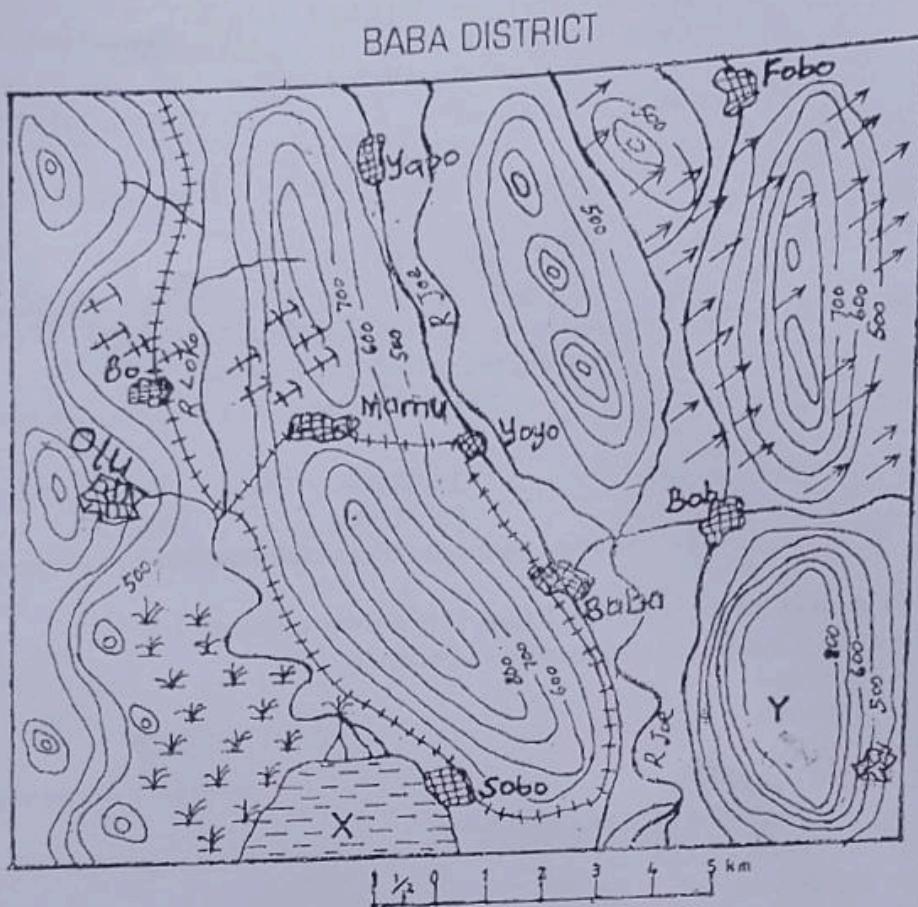
Attempt all the questions in this section.

Use the map of BABA DISTRICT (Fig. 1) to answer questions 1-5

1. The scale of the map as a representative fraction is
  - A. 1:100,000
  - B. 1:150,000
  - C. 1:50,000
  - D. 1:200,000
2. What is the direction of Mamu from Sobo?
  - A. North-east
  - B. North-west
  - C. South-east
  - D. South-west
3. The feature marked Y is a/an
  - A. Escarpment
  - B. Knoll
  - C. Plateau
  - D. Ridge
4. The occupation of the people of Sobo is most likely to be
  - A. Fishing
  - B. Mining
  - C. Farming
  - D. Lumbering

5. The angular bearing of Baba from Yapo is about?
- $165^{\circ}$
  - $195^{\circ}$
  - $240^{\circ}$
  - $280^{\circ}$

Fig. 1: Baba District Map



**KEY**

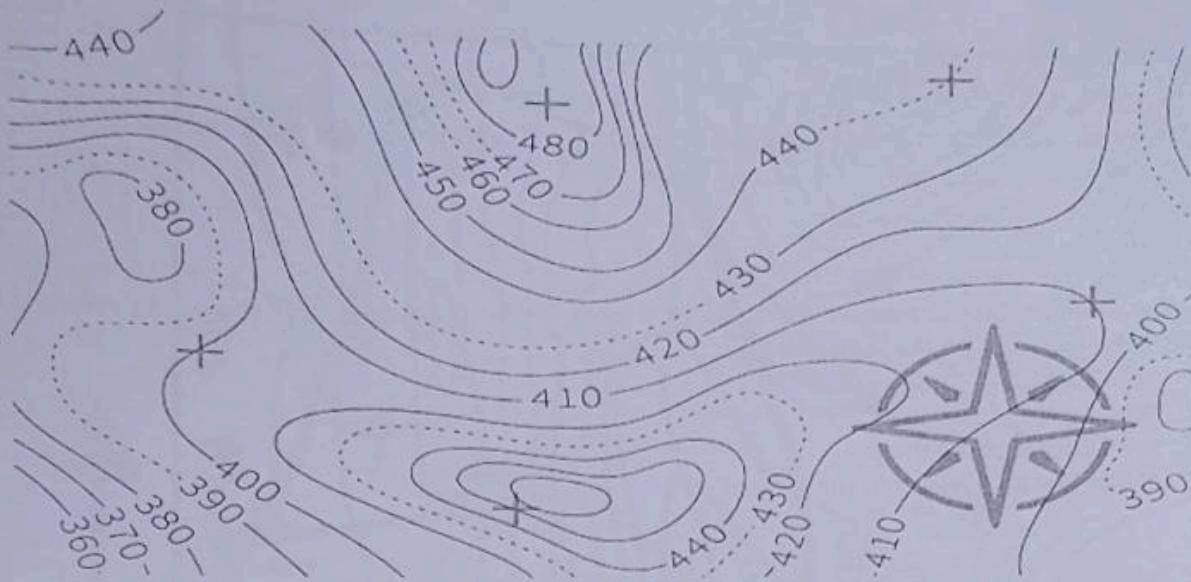
100	Contours in metres		Grazes
	Road		Mineral Workings
	Rail		Swamps
	Rivers		
	Settlements		

6. A map which shows individual countries and the boundaries of other countries is known as?
- A. Aeronautical
  - B. Cadastral
  - C. Political
  - D. Topographical
7. In modern cartography, which of the following data capture devices can be used to generate digital data?
- A. Census Reports
  - B. Historical Documents
  - C. Meteorological Records
  - D. Remote Sensors
8. The vertical distance measured from the datum or mean sea level to any point on the surface of the earth is known as.....
- A. area
  - B. elevation
  - C. bearing
  - D. length
9. All the following are examples of physical factors influencing spatial patterns **except...**
- A. mountains
  - B. valleys
  - C. planes
  - D. plains
10. The arrangement and organization of various features or phenomena on a map is ....
- A. spatial separation
  - B. spatial pattern
  - C. spatial relationships
  - D. spatial mapping
11. The angle between the magnetic meridian and the true meridian is ....
- A. magnetic bearing
  - B. magnetic variation
  - C. magnetic declination
  - D. magnetic north
12. A student drew a vertical line through a point and measured the clockwise angle from this line to a line joining the point and another point on a map. The angle he measured is called ...
- A. magnetic bearing
  - B. grid bearing
  - C. true bearing
  - D. compass bearing
13. The space occupied by a feature on maps is known as ....
- A. perimeter
  - B. distance
  - C. area
  - D. Dimension

14. To convert the measured map distance to real-world distance, the cartographer uses ....
- A. map legend
  - B. map scale
  - C. map projection
  - D. map coordinate system
15. Distances along irregular or meandering lines on a map are easily measured using any of the following materials except ....
- A. ruler
  - B. string
  - C. compass
  - D. divider
16. What type of settlement is aligned along an elongated relief feature?
- A. Linear settlement
  - B. Relief settlement
  - C. Nucleated settlement
  - D. Dispersed settlement
17. Which natural feature is represented on a map using contours and spot heights?
- A. Relief
  - B. Drainage
  - C. Vegetation
  - D. Soil
18. All the following are examples of natural features that can be identified on a map except ...
- A. relief
  - B. drainage
  - C. vegetation
  - D. road
19. The length and breadth dimensions of your college land mass are 12.6cm and 12.2cm respectively. Calculate the land area of your college compound in hectares if the scale of the map is 1:50,000.
- A. 384,300Ha
  - B. 38,430Ha
  - C. 3,843Ha
  - D. 384.3Ha
20. A statistical chart in which series of bars with equal width but different heights are drawn detached from one another to represent a single item are called ....
- A. Simple bar graph
  - B. Histogram
  - C. Divergent bar graph
  - D. Composite bar graph

21. Identify the highest altitude on the map below (Fig. 2).

Fig. 2: Relief map



- A. 490 feet
- B. 480 feet
- C. 380 feet
- D. 400 feet

22. Convert Representative Fraction scales 1:150,000 to statement scales.

- A. 1cm to 1.5km
- B. 1cm to 15km
- C. 1cm to 150km
- D. 1 cm to 1500km

Table 1: The table shows the value of gold exports from a country between 2020 and 2023 (in millions of dollars). Use the table to answer questions 23 and 24.

COMMODITY	2020	2023
Diamond	140	1,000
Iron ore	50	600
Coffee	3,000	70
Cocoa	10	30
Total	3,200	1,700

23. Calculate the percentage change in the value of diamond export between 2020 and 2023.

- A. 614.3 %
- B. 814.3 %
- C. 714.3 %
- D. 514.3 %

24. What was the percentage decrease in the value of exports between 2020 and 2023?

- A. 188.2 %
- B. 53.1 %
- C. 46.9 %
- D. 153.1 %

25. Complete this definition for scale of a map: "The scale of a map shows the relationship between distance on the map and the .....

- A. actual distance on the ground
- B. actual distance on the map
- C. actual distance on the sea
- D. actual distance between the ground

## SECTION B

[75 Marks]

Answer three questions from this section. Each question carries 25 marks.

Table 2: The main exports of Ghana in 2023

COMMODITIES	VALUE (IN MILLION CEDIS)
Diamond	114
Iron ore	26
Bauxite	28
Agric produce	36
Total	204

a. Construct a pie graph to represent the values of export for Ghana in 2023.

[20 marks]

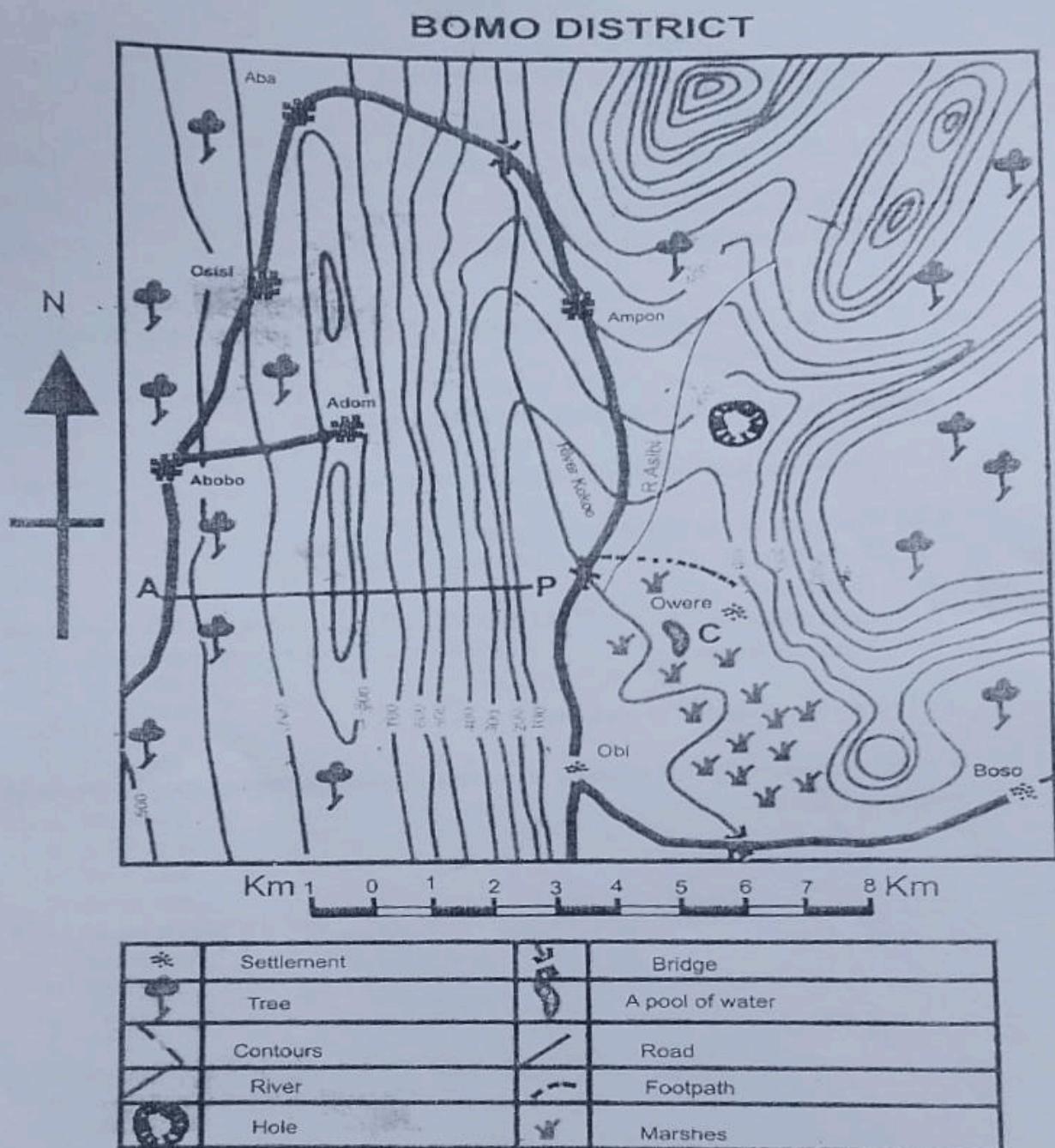
b. State two merits of the use of pie graph for illustrating the data.

[4 marks]

c. Which alternative cartographic method can be used to represent the data.

[1 mark]

Fig. 3: Map of Bomo District



2. Study the map extract of **BOMO DISTRICT** above on a scale of 1:100,000 and answer the following questions:

- (a) In your answer booklet, draw an outline of the square half its original size and state the new scale. [4mks]
- i. Inspect the full length of the class 1 road. [4mks]
- ii. Locate and name the settlement Adom. [2mks]
- (b) Calculate in kilometers, the entire length of River Kokoo. [2mks]
- (c) Give two land use of the mapped area [2mks]
- (d) With evidence from the map, describe the relief of the map area. [6mks]

3. (a) Draw the globe and show the primary lines of latitudes and provide a brief description of the lines of latitudes [8mks]

- (b) State four differences between longitudes and latitudes. [8mks]
- (c) Give two similarities between longitudes and latitudes. [4mks]

4. (a) Write notes on any two of the following:

- i. Cadastral map  
ii. Hachures  
iii. Layer colouring  
iv. Topographic map [16mks]

(b) Explain four properties of good map. [4mks]

5. Write a concise essay with reference to examples on the importance of maps for the discipline geography [ 25mks]