

# GIDEONS ELITE BOYS CENTRE OF EXCELLENCE

P.O BOX 583-20300 NYAHURURU

DECEMBER-2024 ASSIGNMENT

THIS ASSIGNMENT WILL COVER 70% OF OPENER EXAM.

ALL QUESTIONS SHOULD BE ANSWERED IN THE EXERCISE BOOK

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## ATTEMPT ALL QUESTIONS IN THIS SECTION.

- 1(a). Mention three areas covered in practical geography. (3mks)
- (b). State the relationship between geography and mathematics (2mks)
- 2(a). Give two characteristics of the crust (2mks)
- (b). If time in Accra, Ghana  $0^{\circ}$  is 3 pm, what is the time in Nairobi  $37^{\circ}\text{E}$  (3mks)
- 3(a). Define the term rock (2mks)
- (b). Name the metamorphic rock formed from the following original rocks (3mks)
- Granite –
  - Sandstone –
  - Augite –
4. Describe the formation of mechanically formed sedimentary rocks (5mks)
- 5(a). Give three uses of maps (3mks)
- (b). State two types of scales used in topographical map (2mks)
6. The data below shows value of mineral exports in 000' million shillings in Kenya from 2013 to 2016, use it to answer the questions that follow.

### Mineral exports in '000' million shillings.

Mineral/year	2013	2014	2015	2016
Soda ash	25000	24500	23000	20000
Diatomite	18000	16000	14500	14000
Fluorspar	11000	13000	15500	17500

- a). Using a scale of 1cm rep 2000 thousand million shillings, draw a comparative line graph to represent the data above (9mks)
- (b). State three interpretations you make from the comparative line graph above (3mks)
- (c). State two advantages of using comparative line graphs to represent the data (2mks)
- d(i). Identify three types of minerals (3mks)
- (ii). Explain how the following factors influence exploitation of minerals
- Value of mineral (2mks)
  - Mode of occurrence of the mineral (2mks)
- (e). Explain two problems caused by mining (4mks)
- 7a(i). What is a weather station? (2mks)
- (ii). Give three factors to consider while siting a weather station. (3mks)
- (b). The diagram below shows a weather measuring instrument.

- (i) Name the instrument above (1mk)
- (ii) Explain how the above instrument works (3mks)
- (iii) State four significance of weather forecasting (4mks)

- i. Identify the climatic regions marked a,b and c (3mks)
- ii. Describe the climatic characteristics of the region marked d (3mks)

d(i). State two natural causes of aridity and desertification (2mks)

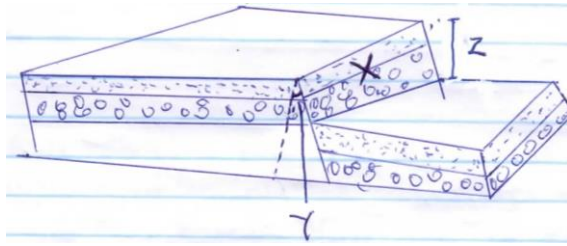
(ii). Explain two effects of aridity and desertification (4mks)

8a(i). Define the term faulting (2mks)

(ii). State three factors that influence faulting (3mks)

b(i). Distinguish between normal faults and reverse faults (2mks)

(ii). The diagram below shows parts of a fault, name the parts labeled x,y and z (3mks)



c(i). Apart from rift valley, mention three features formed as a result of faulting (3mks)

(ii). Using well labeled diagrams describe the formation of rift valley through tensional forces (7mks)

(d). Students from your school intended to conduct a field study on faulting in the Kenyan rift valley.

(i). Give two importance of studying rift valley through fieldwork (2mks)

(ii). Give three reasons why the students need to prepare a work schedule. (3mks)

9(a). State four factors that influence distribution of vegetation (4mks)

(b). Name the temperate grasslands found in the following countries. (4mks)

- South Africa –
- Canada –
- Australia –
- Russia –

(c). Give four reasons why it is difficult to exploit tropical rainforest/ equatorial forest (4mks)

(d). Outline four adaptive characteristics of desert vegetation (8mks)

(e). Your school is planning to carryout a field study in Mt Kenya forest.

i. Formulate two hypothesis for the study (2mks)

ii. State three follow-up activities you would undertake after the study (3mks)

10a(i). Distinguish between forest and forestry (2mks)

(ii) Explain three factors that favour forestry in the slopes of Mt Kenya (6mks)

(b). Give three effects of deforestation in Kenya (3mks)

(c). Explain four measures the government of Kenya has taken to conserve and manage forests (8mks)

(d). Give the difference between soft wood forests in Kenya and Canada under the following sub-headings.

- i. Distribution of forests (2mks)
- ii. Period of harvesting (2mks)
- iii. Marketing of forest products (2mks)

12. a) Composite volcano

- b) i) What are earthquakes? ii) Name **two** types of earthquakes waves  
 iii) Explain **three** ways in which volcanic mountains positively influence human activities

13. a) Using well labeled diagrams, distinguish between a simple symmetrical fold and an asymmetrical fold.

- a. i) Name **two** fold mountains of the Alpine Orogeny  
 ii) With the aid of well labeled diagrams, describe how a fold mountain is formed.

b. Explain **three** positive effects of folding on the physical & human environment.

14. (a) State **three** ways in which the earth's crust is affected by the earthquakes (b) State **two** evidences of continental drift theory  
 (c) Name **three** types of plate tectonic boundaries

15. (a) (i) What are tectonic plates (ii) Give any **two** examples of oceanic plates:-

- a. Describe how the following cause earth movements i) Isostatic adjustment (ii) Magma movement  
 in the crust (iii)  
 Convectional currents in the mantle.

16. (a) Give any **two** natural causes of earthquakes  
 a. Name **three** characteristics of the rift valley lakes of Kenya

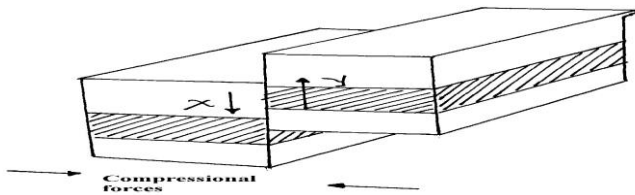
17. (a) State **three** characteristics of the rift valley lakes of Kenya  
 (b)(i) What are earth quakes?

(ii) Name **three** types of earth quake waves c).

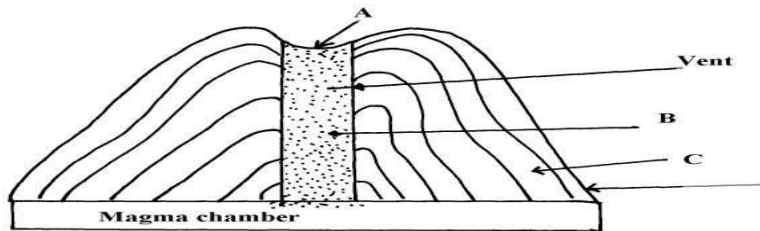
Differentiate between extension boundaries and compression boundaries.

18. a. i) What is an earthquake  
 ii) Give **two** ways in which earthquakes can be predicted  
 b) State **two** ways in which faulting interferes with transport and communication lines.

19. The diagram below represents a feature resulting from faulting



- (a) Name the feature  
 (b) Name part x and y  
 (c) Give **three** negative of an earthquake  
 20. (a) Differentiate between hot springs and geysers



(b) The feature below shows an extrusive landform in a volcanic area

- (i) An anticlinal fault
- (ii) An overthrust fold

(d) (i) Explain any **three** ways in which features resulting from volcanicity are a problem to people

(ii) Describe how subsidence can lead to formation of a caldera.

- 21. (a) What is the plate tectonic theory?
- (b) Name **three** types of tectonic plate boundaries

(c) Explain **two** evidences that support continental drift theory.

- 22. (a) (i) Name **two** fold mountains in Africa apart from Atlas mountains
- (ii) Differentiate between **symmetrical** and **asymmetrical** folds
- (iii) Apart from symmetrical and asymmetrical folds, name other types of folds

(b) (i) With the aid of well labeled diagrams explain the formation of **fold** mountains

(ii) Give **two**-examples of fold mountains in North America

- 23. a) Effects of the elliptical shape of the earth's orbit
- b) Mention **three** causes of the earth movements

- 24. a) List **two** characteristics of destructive plate boundary
- Outline three natural causes of earthquakes
- b) State **two** effects of earthquakes on crystal rocks

- 25. a) List **two** factors that determine the degree of folding in rocks
- three effects of faulting on drainage systems
- b) State

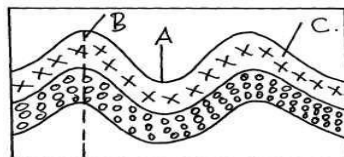
- 26. (a) State any **one** evidence that support the theory of the drifting of continents

(b)(i) Apart from Africa, name **any two** other continents that form the Gondwanaland

(ii) What is panthalassa?

- 27. a) Give **two** reasons why hardwood trees species in Kenya are in danger of extraction
- b) State **three** problems that affect forestry in Canada

- 28. The diagram below shows a simple fold
- (a) (i) Name the part marked **A, B** and **C**



(ii) Name **two** fold mountains outside Africa

- (iii) Give **three** landform associated with folded regions
- a. With the aid of well labeled diagram describe the process of formation of Fold Mountain
- b. Explain **four** ways in which folding influences human activities