

ALLIANCE GIRLS HIGH SCHOOL MOCK 2017

GEOGRAPHY PAPER 1

SECTION A

INSTRUCTIONS: *Answer all the questions in this section*

- 1.a) Give three characteristics of Katabatic wind. (3mks)
b) Apart from Katabatic wind, name two other local winds. (2mks)
- 2.a) What is the international date line. (2mks)
b) State three effects of earth's rotation. (3mks)
- 3.a) Name two countries in Africa which experience Mediterranean climate. (2mks)
b) State three characteristics of desert climate. (3mks)
- 4.a) Give three characteristics of a constructive waves. (3mks)
b) Distinguish between a coastline and the shoreline. (2mks)
- 5.a) Define the term soil degeneration. (2mks)
b) Give three causes of soil degeneration (3mks)

SECTION B

INSTRUCTIONS: *Answer questions 6 and any other two questions in this section.*

6. Use the map of Migwani (sheet 151/1) to answer the questions that follow.
- a) (i) Identify three physical features found in gridsquare 0567. (3mks)
(ii) Name two types of vegetation found in the area covered by the map. (2mks)
(iii) What is the height of the highest point along line J-K (2mks)
(iv) Identify two possible uses of river Ikoo. (2mks)
- b) (i) Using longitudes and latitudes, locate Italoni dam (2mks)
(ii) Calculate the area enclosed by River Ikoo and roads D 509 and E728. (2mks)
- c) Describe the long profile of river Ikoo. (6mks)
- d) Citing evidence from the map, give three services provided Gwani town. (6mks)

7. a) Differentiate between a drainage basin and a watershed. (2mks)
- b) Describe how rivers erode through the following processes.
- (i) Attrition (2mks)
- (ii) Solution. (2mks)
- c) (i) List three factors that influence the development of drainage patterns. (3mks)
- (ii) State four characteristics of a river in its youthful stage. (4mks)
- d) (i) State two main causes of river rejuvenation. (2mks)
- (ii) Describe how an ox-bow lake is formed. (5mks)
- e) AGHS students conducted a field study on river capture.
- (i) Identify three pieces of evidence of capture they are likely to have identified. (3mks)
- (ii) Give two reasons why you are likely to rely on observation as a method of data collection. (2mks)
8. a) Differentiate between weathering and mass wasting. (2mks)
- b) State three factors which influence the character and rate of weathering (3mks)
- c) Describe how the following weathering processes occur.
- (i) Exfoliation (5mks)
- (ii) Frost action (5mks)
- d) (i) Define the term solifluction (2mks)
- (ii) State three effects of soil creep on physical environment. (3mks)
- e) Students of Wajir High School conducted a field study on weathering around their school.
- (i) Apart from exfoliation, and frost action name any other two types of physical weathering they studied. (2mks)
- (ii) State three problems they may have encountered. (3mks)

9. a) (i) Distinguish between seismic focus and epicentre. (2mks)
- (ii) List three characteristics of primary waves. (3mks)
- (iii) Explain three natural causes of earthquakes. (6mks)
- (iv) Identify three scales that are used to measure intensity and magnitude of earthquakes. (3mks)
- b) (i) Describe the plate tectonics theory. (4mks)
- (ii) Give four significance of the plate tectonics theory. (4mks)
- (iii) What is subduction. (2mks)
- 10.a) (i) What is faulting. (2mks)
- (ii) Apart from an thrust fault, name three other types of faults. (3mks)
- (iii) Draw a well labelled diagram of an thrust fault. (2mks)
- b) (i) Differentiate between a fault scarp and a fault line. (2mks)
- (ii) Name three features found along the riftvalley of Kenya. (3mks)
- (iii) With the aid of a well labelled diagram the formation of a rift valley by tensional forces. (7mks)
- c) Explain three ways features resulting from faulting is of significance to humankind. (6mks)