

GEOGRAPHY PAPER 1

NYANDARUA COUNTY MOCKS EXAM

312/1

SECTION A

Answer all questions in this section

1 a) Name two inner planets of the solar system (2mks)

b) Give two proofs of the spherical shape of the earth (2mks)

c) Given the local time of station A 63° East is 1.10 am. What is the longitude of station B whose local time is 11.50 pm (2mks)

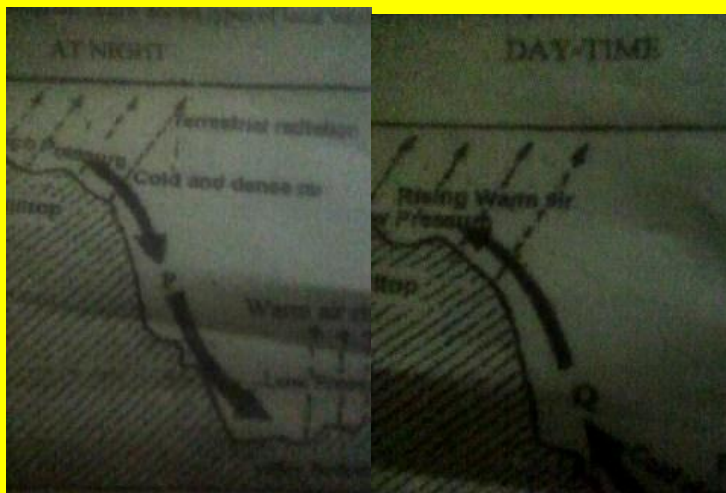
2 a) What is vulcanicity?

b) State three characteristics of composite volcano (3mks)

3 a) List two types of intrusive igneous rocks (2mks)

b) State three characteristics of sedimentary rocks (3mks)

4. The diagram below shows type of local winds. Use them to answer questions (a) and (b)



a) Identify the two types of winds marked P and Q (2mks)

b) Give reasons why the wind marked P flows from the hill top to the valley bottom at night (2mks)

5 a) Name the grassland found in the following regions of the world (3mks)

i) Russia

ii) Australia

iii) Canada

b) state two ways desert vegetation adapts to drought condition of the desert (2mks)

SECTION B

Answer question 6 and any other two questions in this section.

6. You have been provided with a map of Busia 1: 50000 (sheet 101/10 study the map and answer the following questions

a) i) Give the four figure grid reference of munongo school

ii) Give the approximate height of Ndanyi hill

b) i) Calculate the area enclosed by the regional boundary to the south East of the area covered by the map (2mks)

ii) Measure the distance of the loose surface road B8/3 from the southern edge of the map to the junction at matayo with road C529. Give the distance in kilometers and meters (2mks)

iii) Give the bearing of the trigonometrical station 101T12 from the Air photo principle point at GR 316418 (2mks)

c) i) Identify three relief features shown in the area covered by the map (3mks)

ii) Give the magnetic declination of the map (2mks)

d) i) Citing evidence from the map identify three economic activities in the area covered by the map (6mks)

ii) Describe the drainage of the area covered to the north of Northing 40 (5mks)

7 a) i) Name two types of internal earth movements (2mks)

ii) Give three causes of internal earth movements (3mks)

b) i) What is folding (2mks)

ii) Draw a well labeled diagram to show a simple fold. On it show the crest, limb, axis and compressional forces (4mks)

iii) Differentiate between symmetrical and asymmetrical folds (2mks)

c) Describe the formation of fold mountain from a geosyncline (6mks)

d) Explain three ways in which features formed by folding are significance to human activities (6mks)

8 a) What is hydrological cycle (2mks)

b) Explain how the following factors influence surface run-off (4mks)

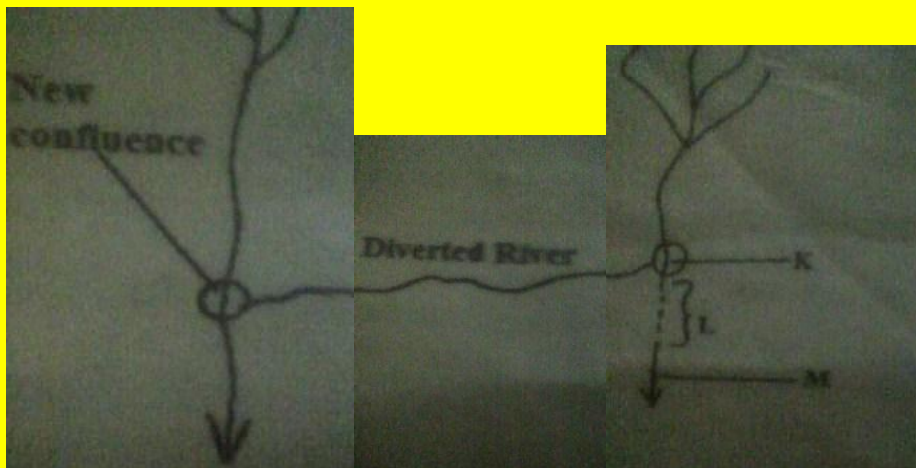
-Amount of rainfall

-Gradient or slope

c) i) Differentiate between river divide and river basin (2mks)

ii) State three factors that influence the amount of river discharge (3mks)

d) i) The diagram below show a river capture. Name the part marked J, K, L and M (4mks)



ii) Give four conditions that lead to river capture (4mks)

e) Describe using simple well labeled diagram the following drainage patterns.

i) Dendritic (3mks)

ii) Centripetal (3mks)

9 a) i) What is a lake (2mks)

ii) Name two crater lakes in Kenya (2mks)

b) Give three reasons why lake Naivasha has fresh water (3mks)

c) i) Using suitable diagrams describe the formation of ox-bow lakes (8mks)

ii) State four benefits of lakes to the economy of Kenya (4mks)

d) Your class intends to carry out a field study at lake Naivasha

i) Give three reasons why it's necessary to visit the lake before the actual field study (3mks)

ii) Give three human activities are the students likely to identify polluting the lake (3mks)

10 a) Name three components of soil (3mks)

b) Explain how the following factors influence soil formation

i) Biotic factors (3mks)

ii) parent rock (3mks)

c) i) Differentiate between soil profile and soil catena (2mks)

ii) Give three importance of humus in the soil (3mks)

d) i) Define the term soil conservation (3mks)

ii) Explain how the following methods are used to control soil degeneration

-Mixed cropping (2mks)

-Construction of Gabions (2mks)

e) You intend to carry out a field study of soils within the school environment

i) Identify three methods you would use to collect data (3mks)

ii) Name two types of soils you are likely to identify according to texture (2mks)