ORDINARY LEVEL NATIONAL EXAMINATIONS, 2017

SUBJECT: GEOGRAPHY

PAPER I: PHYSICAL GEOGRAPHY

DURATION: 3 HOURS

INSTRUCTIONS:

1) Write your names and index number on the answer booklet as written on your registration form and **DO NOT** write your names and index number on additional answer sheets of paper if provided.

2) Do not open this question paper until you are told to do so.

3) This paper has **THREE** sections: **A**, **B** and **C**.

   - **SECTION A**: Attempt all questions
   - **SECTION B**: Attempt any **THREE** questions.
   - **SECTION C**: Attempt only **ONE** question.

4) Use a **blue** or **black** pen.
SECTION A: Attempt all questions (55 marks)

1) Differentiate between “galaxy” and “constellation”. (2 marks)

2) State three factors that determine the shape of the earth. (3 marks)

3) Briefly describe the characteristics of the oceanic crust. (3 marks)

4) With the aid of a diagram, explain how the solar eclipse occurs. (4 marks)

5) Explain what is meant by the terms:
   a) Global warming. (2 marks)
   b) Relative humidity. (2 marks)

6) a) i) Why is the Stevenson screen painted white? (1 mark)
       ii) Why does the screen in 6 a)(i) have louvers? (1 mark)
   b) Differentiate between climate and weather. (2 marks)

7) Explain how the following features are formed:
   a) Escarpment. (3 marks)
   b) Tilt block. (3 marks)

8) Describe two ways in which faulting influences the drainage patterns. (2 marks)

9) Name three important gases in the earth’s atmosphere. (3 marks)

10) Briefly explain the three processes below that make up the water cycle:
    a) Surface Runoff. (2 marks)
    b) Infiltration. (2 marks)
    c) Transpiration. (2 marks)
11) a) Describe two main causes of flooding. 
   b) Describe four characteristics of desert soils. 

12) a) Describe the characteristics of igneous rocks. 
   b) Explain the effects of faulting on drainage of an area. 

13) a) Describe the characteristics of topographical maps. 
    b) How do hachures show relief features on a topographical map? 

SECTION B: Attempt any three questions (30marks)

14) With the aid of a well-labelled diagram, explain the structure of the earth's atmosphere. 

15) a) Describe the formation of the following two deposition features found in the lower stage of a river: 
    (i) Meander. 
    (ii) Ox-bow lake. 
    b) Explain the significance of rivers on development. 

16) a) Briefly describe the characteristics of savanna climate. 
    b) Explain the significance of savanna vegetation to man. 

17) a) Explain three determinants of weathering. 
    b) Distinguish between weathering and erosion. 

18) Discuss the significance of folding to man.
SECTION C: Attempt only one question (15 marks)

19) Study the map extract of RUKIRA (on page 4) and answer the questions given below:

a) (i) Identify two types of settlement from the map extract. (2 marks)

(ii) Give reasons to support the answer given in 19 (a) (i) above. (3 marks)

b) (i) Describe the relief of the area shown on the map extract. (3 marks)

(ii) Describe the vegetation of the area. (3 marks)

(iii) Explain the influence of relief on vegetation distribution. (4 marks)
20) Study the photograph provided on the next page (page 8) and answer the questions given below:

a) (i) Name the type of photograph shown on page 8. (1mark)

(ii) Name the economic activity taking place in the photograph. (1mark)

b) In which season was the photograph likely to have been taken? (1mark)

c) (i) Describe the animals shown in the photograph. (3marks)

(ii) Give reasons why these animals are kept. (4marks)

d) Explain the problems faced by the people who practice this activity. (4marks)

e) Name an area in Rwanda where this photograph could have been taken. (1mark)