

LINTHIPE SECONDARY SCHOOL

2018/2019MSCE MOCK EXAMINATIONS

GEOGRAPHY

PAPER I

MAP READING AND PHYSICAL GEOGRAPHY

(100 marks)

INSTRUCTIONS

Time Allowed: 2 h 30min

Instructions:

1. This paper contains **9** pages. Please check.
2. The paper has **Five** questions in this paper.
3. There are two sections **A** and **B**.
4. Section **A** comprises of **three** questions and candidates must answer **all** the **three** questions.
5. Section **B** comprises of **two** questions and candidates must answer **one** question only.
6. **All written** maps and diagrams should be neatly fastened and handed in with your Answer Book.
7. Write your **Name and number** on each page of your Answer Book.

Question number	Tick if answered	Do not write in these columns	
1			
2			
3			
4			
5			

SECTION A (85 marks)

Answer all questions in this section.

1. Study the 1:50 000 map extract of Dowa and answer the questions that follow:

a.i. Identify the human feature found at grid reference **052855**

_____ (1 mark)

ii. Give **six figure** grid reference for a trigonometric station south of **northing 84**

_____ (1 mark)

b.i. In which direction is Lipimbi river flowing

_____ (1 mark)

ii. Identify any **two** types of drainage pattern displayed on the map.

_____ (2 marks)

iii. Calculate the bearing of BHQ242 (**0486**) from road junction in (**0388**).

_____ (2 marks)

c. Measure the distance of **S31** road which goes to Salima from where it is crossing **northing 89** up to where it is crossing **easting 08**. Give your answer to the nearest km.

_____ (3 marks)

d. Describe the general relief displayed on the map.

_____ (2 marks)

e. Calculate the actual area of land covered by Dowa Hills Forest Reserve. Give your answer to the nearest square kilometres.

(6 marks)

f. Calculate the vertical interval of the map.

_____ (1 mark)

g. i. Describe the general settlement pattern shown on the map to the south of **northing 85**.

_____ (2 marks)

ii. Give a reason to your answer.

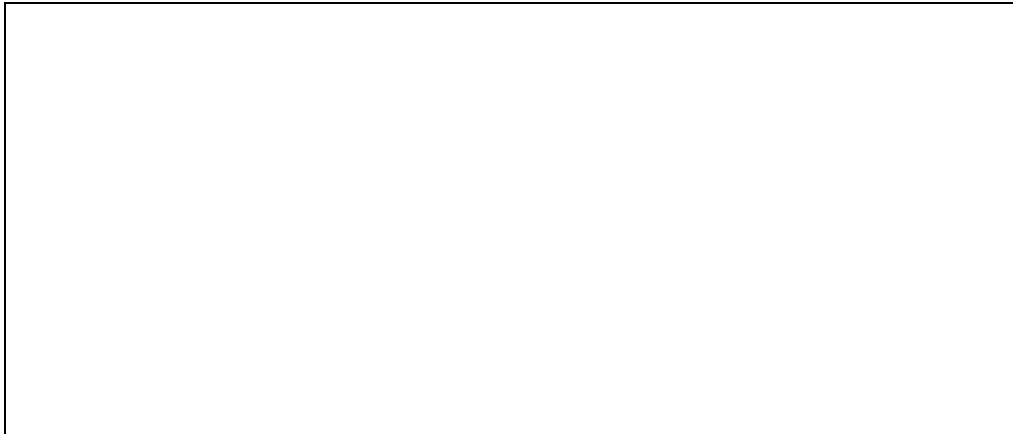
_____(2 marks)
h. What evidence is there on the map to show that

_____(2 marks)
i. there is agriculture take place?

_____(2 marks)
ii. there are conservation activities?

_____(2 marks)
iii. Using the map of Dow reduce the map by its half, on the map show the S31 road show the working. (6 marks)

2. a.i. With an aid of a well labeled diagram, describe the internal structure of the earth.



_____ (6 marks)

ii. What name is given to the boundary between the lithosphere and the mantle?
_____ (1 mark)

iii. Name any **two** minerals that are found in the inner most layer of the earth.

_____ (2 marks)

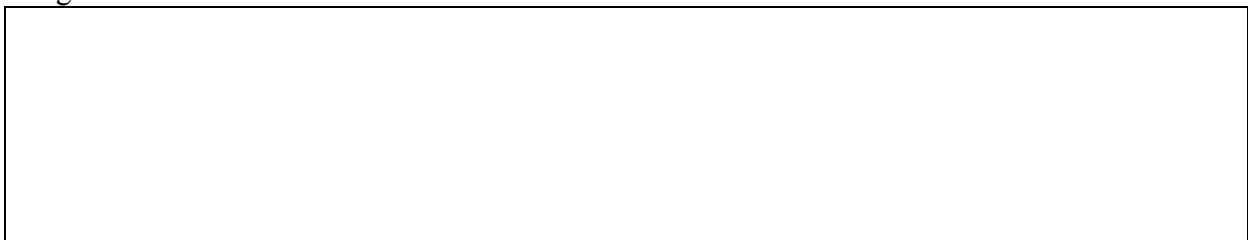
b.i. Why are earthquakes and volcanoes common along plate boundaries?

_____ (4 marks)

ii. Describe any **two** effects of earthquakes.

_____ (4 marks)

iii. With an aid of a diagram, describe any three features that are formed by volcanoes when magma reaches or fail to reach the earth's surface.



_____ (5 marks)

3. a. Define tectonic activity.

_____ (2 marks)

b. **Figure 1** shows a plate boundary. Use it to answer questions that follow.

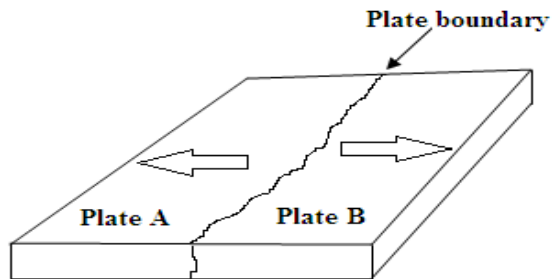


Figure 2

i. Identify this type of plate boundary.

_____ (2 marks)

ii. Name any **one** physical feature which is likely to be found along this plate boundary.

_____ (2 marks)

iii. Describe the **two** types of plate boundaries.

_____ (4 marks)

c.i. Write **two** examples of Fold Mountains.

ii. Why are extrusive igneous rocks shiny and fine grained?

_____ (2 marks)

iii. Give any **two** examples of extrusive igneous rocks.

(2 marks)

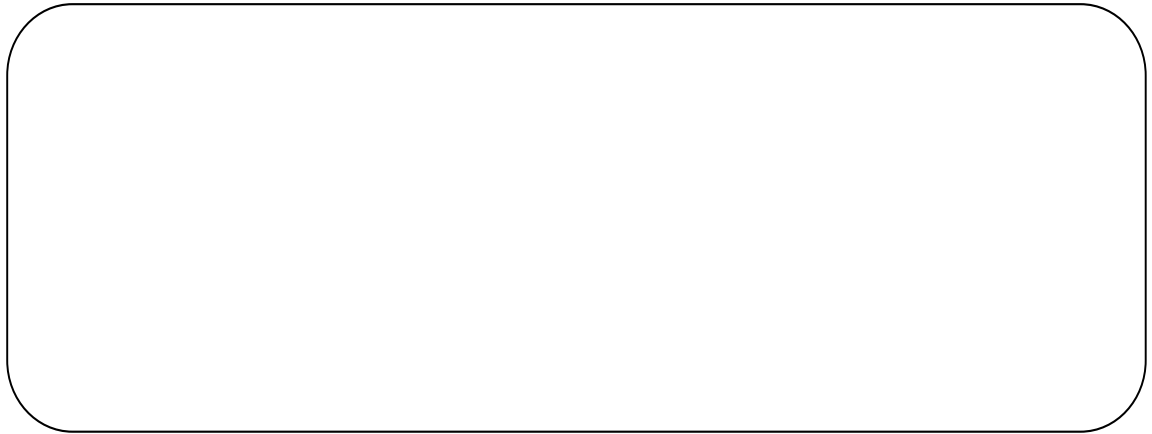
iv. What type of rock is granite?

(1 mark)

d.i. State any **two** forms of precipitation.

(2 marks)

ii. With the aid of a well labeled diagram describe how land and sea breezes are formed.



(4 marks)

SECTION B

Answer one question from this section in the space provided.

4. a.i. Define the term solstice.

(1 mark)

ii. What seasons will be experienced in Cape Town if the sun is overhead at:

a. Tropic of Capricorn. (1 mark)

b. Equator. (1 mark)

c. Tropic of Cancer. (1 mark)

c. A traveler leaves at town 120° west of the Greenwich Meridian at 11:10am. At what time he arrives at place 75° east of the Greenwich Meridian? Show your working.



(3 marks)

d. Draw a stationary globe and on it insert the pressure belts, latitudes and

prevailing winds in the northern hemisphere.

(4 marks)

. **Figure 2** below is a diagram showing a drainage pattern. Use it to answer questions that follow.

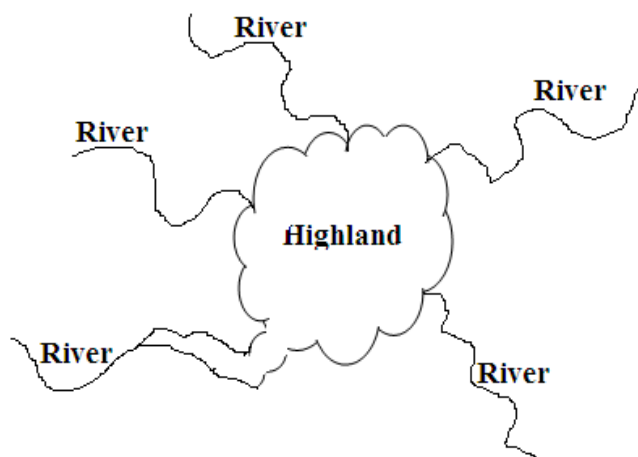


Figure 2

e.i. Identify the drainage pattern.

_____ (1 marks)

ii. Describe any **one** characteristic of this type of drainage pattern in 5a(i).

_____ (2 marks)

f . Describe the weather associated with;

i. Voltex _____ (1 mark)

ii. Eye. _____ (1 mark)

g. The table below shows temperature and rainfall statistics of a certain station of a climatic region. Use it to answer the questions that follow.

Month	J	F	M	A	M	J	J	A	S	O	N	D
Temp (°C)	-22	-22	-21	-4	2	5	5	1	1	4	-10	-17
Prec	10	13	18	18	15	13	13	28	28	28	28	13

(mm)												
------	--	--	--	--	--	--	--	--	--	--	--	--

i. Which climatic region does the table represent?

_____ (1 mark)

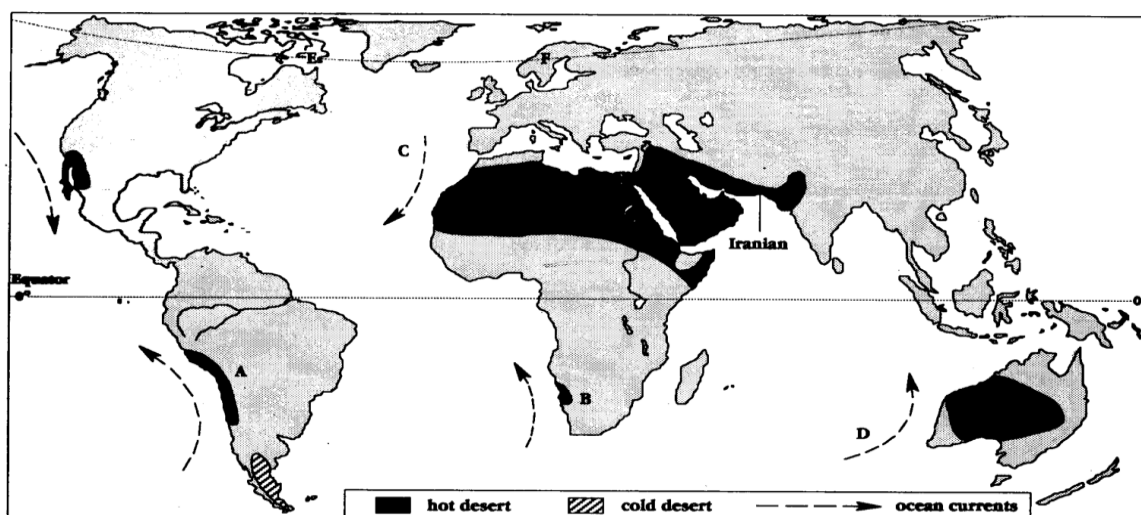
ii. In which hemisphere is this type of climate found? Give a reason for your answer.

_____ (1 marks)

iii. Draw a rainfall bar graph for all the 12 months. Use 2cm to represent 5mm on the vertical scale of the graph paper and each bar representing a month should be 1cm wide. Use graph paper provided

(7 marks)

5.a **Figure 3** is a world map showing deserts and ocean currents. Study it and answer the questions that follow:



i. What is ocean currents?

_____ (1 mark)

ii. Name ocean current marked C and D.

C. _____ D. _____ (2 marks)

iii. Explain the effects of ocean current marked C to the environment area at the north Africa.

 _____ (4 marks)

b.i. state two types of rock.

 _____ (2 marks)

ii. Explain two importance of rocks.

 _____ (2 marks)

c. i. Define water pollutions

_____(1mark)
ii. Explain how the removal of vegetation influences air pollution in an area?

_____(2marks)
iii. Explain one possible effects of air pollution that may occur as a result of removal of vegetation

_____(2marks)
d. i. Explain any two ways how wild and aquatic species are endangered?

_____(4marks)
ii. Give any one example of a wetland?

_____(1mark)
iii. Explain how human activities threaten wetlands

_____(2marks)

END OF QUESTION PAPER