NAME	INDEX NO	
SIGN	DATE	
GEOGRAI	РНҮ	
PAPER 1		
THEORY		
MARCH/A	APRIL 2017	
TIME: $2\frac{1}{2}$ l	HOURS	
	TABANI FRIENDS SECONDARY SCHOOL	L
INSTRU	JCTIONS	
a) A	nswer ALL Questions in Section A	
SI	ECTION A (25MKS)	
1.	(a) State the dominant minerals found in the continental crust.(b) Give three characteristics of the Mantle.	(2mks) (3mks)
2.	(a) State three sources of ground water.(b) State two underground features common in Karst scenery.	(3mks) (2mks)
3.	(a) Give three causes of volcanicity.(b) Differentiate between weathering and mass wasting.	(3mks) (2mks)
4.	 (a) What is the difference between plutonic and volcanic rocks (b)Give an example in each of the following types of igneous r (i) Plutonic (ii) Hypabyssal (iii) Volcanic 	
5.	(a) What is the solar system?	(2mks)
	(b) Identify three planets that have satellites.	(3mks)

SECTION B

Answer questions 6 and any other two questions.

Study the map of Homa Bay sheet 129/2 provided and answer the questions that follow.

- 6. (a) i) Name the County administrative boundary of Kenya covered by the map of HOMA BAY. (1mk)
 - ii) Give the value of the grid square enclosing God Nyamjini 129T35 .

(1mk)

- iii) What is the area in Kilometres square of the area covered by OLAMBWE VALLEY NATIONAL RESERVE? (2mks)
- (b) i) Draw a cross section between grid references 610350 and 660350. Use vertical scale 1cm represents 100ft. (7mks)
 - ii) On the drawn cross section, mark and label the following features: (3mks)
 - Kanyabala forest
 - River Hogo
 - Houses
- (c) Describe the relief of the area covered by the map.
- (d) A group of students carried out a field study of the landscape in the area to the north of northing 42 and to the west of easting 50.
 - i) Name **one** physical landform and drainage feature they identified. (2mks)
 - ii) State **two** problems they might have encountered when carrying out the study.

(2mks)

(6mks)

- iii) Give **one** advantage of studying landscape through fieldwork. (1mk)
- 7. (a) Define the term 'Aridity'.

(1mk)

(b) Describe the following wind erosion processes in arid areas.

i) Deflation

(2mks)

ii) Attrition

(2mks)

- (c)State and explain **three** factors that influence wind transportation. (6mks)
- (d) Explain the formation of a Zeugen.

(5mks)

- (e) You are supposed to carry out a field study of a semi arid area in Kenya.
- i) Name **two** features you would identify formed as a result of water erosion in the area. (2mks)
- ii) State two ways through which you would prepare yourself for the field study.

(2mks)

iii) What information would you collect through observation that would indicate the area is turning into a desert? (2mks)

	iv) State three measures you would recommend to be put in place desertification in the area.	to control (3mks)
8.	1 3	(2mks)
	(b) Explain how the change in the base level leads to river rejuvenation	. (6mks)
	(c) i) Explain the three processes of river transportation.ii) State four factors that lead to river deposition.	(6mks) (4mks)
	(d) Your class conducted a field study on the work of rivers around compound.	your school
	i) State three preparations you made before the field study.	(3mks)
	ii) Give two examples of rivers you identified to conduct the stucapture.	(2mks)
	iii) Identify two problems you might have encountered during the fi	` /
O	(a) i) What is ground water?	(2mks)
Э.	ii) List four sources of ground water?	(4mks)
	,	, ,
	(b) i) Outline four ways through which springs form.ii) The diagram below shows various zones of ground water. Nam	(4mks)
ma	arked A, B and C.	(3mks)
		(2.1.)
no	(c) i) Name three features which form on the surface of a Karst scenerii) Draw a diagram to show an underground limestone cave. On in	•
11a	me: • A stalactite.	(1mk)
	A stalagmite.	(1mk)
	A limestone pillar.	(1mk)
	Underground River.	(1mk)
	iii) Describe how a stalagmite is formed.	(5mks)
10	. (a) i) Define a glacier.	(2mks)
	ii) Name three types of glacier.	(3mks)
	(b) i) A part from a cirque, name two features found on the upland glac	
	ii) Describe the process through which a cirque is formed.	(2mks) (5mks)
	(c) Explain three ways in which upland glaciated features are signature.	gnificant to activities.
	(6mks)	
	(d) You are planning to carry out a field study of an upland glaciated an	ea.

- i) Give **three** reasons why you would require a route map. (3mks)
- ii) Identify challenges you are likely to encounter during the field study. (4mks)

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