## **ROCKS AND MINERALS**

(a) Describe the following characteristics of minerals

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1.	(a) Describe the following characteristics of minerals						
		(i)	Colour	(2mks)			
		(ii)	Cleavage	(2mks)			
		(iii)	Hardness	(2mks)			
	(b)	(i)	Give two types of igneous rocks	(2mks)			
		(ii)	Explain three conditions necessary fro the growth of co	ain three conditions necessary fro the growth of coral polyps			
(6mks)							
	(c)	State	four uses of rocks	(4mks)			
	<ul><li>(d) You are planning to carry out a field study on the rocks within your school environm</li><li>(i) Give two secondary sources of information you would use to prepare for the</li></ul>						
			field study (2mks)				
		(ii)	(ii) State why you would need the following items during the field study:				
			i. A fork jembe	(1mk)			
			ii. A polythene bag	(1mk)			
		(iii)	i) Suppose during the field study you collected marble, sandstone and granite,				
			classify each of these samples according to its mode of formation				
		(3mks)					
2.	(a)	State	two characteristics of sedimentary rocks	(2mks)			
	(b)	Give	two examples of chemically formed sedimentary rocks	(2mks)			
3.	a)	Name the type of rocks which results from the metamorphism of:					
		(i)	Granite				
		(ii)	Clay	(2mks)			

	b)	Give	two reasons why sedimentary rocks are widespread in the coastal plain of Kenya.				
			(2mks)				
4.	(a)	(i)	What is a rock?	(2mks)			
		(ii)	) Describe three ways through which sedimentary rocks are formed				
		b.	Mechanically formed				
		c.	Organically formed				
		d.	Chemically formed	(6mks)			
	(b)	Descr	ribe two process through which sedin	nentary rocks changer into metamorphic rocks			
	(c) C	(c) Give an example of each of the following types of igneous rocks					
	(a) P	Plutonic	rocks	(1mks)			
	(b) H	Iypabyss	sal rocks	(1mks)			
	(c) V	/olcanic	rocks	(1mks)			
	(d)	Suppo	ose you were to carry out a field stud	y of rocks within the vicinity of your school			
		(i)	Name three secondary sources of i	nformation you would use to prepare for the			
			field study	(3mks)			
		(ii)	State four activities you would carr	ry during the filed study (3mks)			
		(iii)	State three problems you are likely	to experience during the field study			
				(3mks)			
5.	(a)	Differ	rentiate between plutonic rocks and v	olcanic rocks			
	(c) (i	i) N	ame three volcanic features found in	the rift valley of Kenya			
	(i	ii) Ez	xplain four negative effects of vulcan	icity in Kenya			
	(d) You intend to carry out a field study of a volcanic landscape						
		(i)	) State four reasons why it is nec	essary to conduct a reconnaissance			

of the area of study.

		(ii) During your field work, you intend to study volcanic rocks, state					
	why you would need the following items						
6.	(a)	State two main conditions that influence the characteristics of igneous					
		rocks.	(2mks)				
	(b)	Write down three characteristics of sedimentary rocks.	(3mks)				
	(c)	Name two examples of organic sedimentary rocks and where found in Kenya.					
		(2mks)					
	(d)	Name four examples of metamorphic rocks and state the original rock from which each					
		was formed. (4mks)					
	(e)	Describe the importance of rocks to human activities.	(5mks)				
7.	(a)	State with examples three classes of mechanically formed sedimentary					
		rocks.	(6mks)				
	(b)	Differentiate between regional metamorphism and contact m	etamorphism.				
			(4mks)				
8.	(a)	List two examples of extrusive igneous rocks.	(2mks)				
	(b)	Differentiate between extrusive and intrusive rocks giving an	example in				
		each case.	(2mks)				
9.	What is a rock?		(2mks)				
10.	What	is a mineral?	(2mks)				
11.	Desc	Describe changes that occur in sedimentary rocks when they are subjected to high heat and					
	press	ure. (4	4mks)				
12.	Desci	(2mks)					
13.	Describe carbonaceous rocks. (2mks)						

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14.	Give examples of chemically formed sedimentary rocks.	(2mks)
15.	How are coral rock formed?	(3mks)
16.	How do rocks become metamorphic?	(3mks)