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EXAMINATION FOR THE AWARD DEGREE OF BACHELOR OF SCIENCE IN NATURAL RESOURCES AND MANAGEMENT

NARE 213: PRINCIPLES OF MINERAL RESOURCES MANAGEMENT

STREAMS: NARE TIME: 2 HOURS

DAY/DATE: MONDAY 20/04/2020 8.30 A.M - 10.30 A.M.

INSTRUCTIONS:

- Answer ALL Questions in Section A and any Two questions in Section B
- Do not write anything on the question paper.

SECTION A 30 MARKS

Q.1. Define the following term as used in mineralogy		
(a) Mineral	[2 Marks]	
(b) Bonds	[2 Marks]	
(c) Crystal morphology	[2 Marks]	
Q.2. Explain various criteria used to define a mineral.	[5 Marks]	
Q.3. Define the property of streak in minerals contrast its use in mineral identification with colour. [6 Marks]		
Q.4. Explain three components of ore genesis.	[6 Marks]	
Q.5. Explain using examples how minerals are named.	[4 Marks]	
Q.6. List various symmetry operations in mineral.	[3 Marks]	

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SECTION B 40 MARKS

Q.7.	(a) Discuss the general environments where rocks and minerals ores are fo modified.	rmed or are [10 Marks]
	(b) Describe various properties of minerals.	[10 Marks]
Q.8.	(a) List the Moh's scale of hardness.	[10 Marks]
	(b) Discuss three principle bonds types as used in mineralogy	[10 Marks]
Q.9. D	iscuss using examples, the contribution of mineral resources in the Kenyan	economy. [20 Marks]