**CHUKA** 



## **UNIVERSITY**

[1 Mark]

## **UNIVERSITY EXAMINATIONS**

# EXAMINATION FOR THE AWARD DEGREE OF BACHELOR OF SCIENCE IN ECOTOURISM

NARE 326: MINERALOGY AND MINERAL EXPLOITATION

STREAMS: NARE TIME: 2 HOURS

DAY/DATE: THURSDAY 9/04/2020 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)

(a) Mineral

Q.1. Define the following terms as used in mineralogy.

(b) I	Birefringence	[1 Mark]
(c) S	Siderophile	[1 Mark]
(d) H	Bonds	[1 Mark]
(e) C	Crystal morphology	[1 Mark]
(f) E	Euhedral	[1 Mark]
Q.2. Explain various criteria used in defining mineral.		

## **NARE 326**

Q.3. D	ification with [6 Marks]			
Q.4. I	ist the miller indices of all the faces of an octahedron.	[6 Marks]		
Q.5. E	xplain with examples how minerals are named.	[ 4 Marks]		
Q.6. L	ist various symmetry operations in mineral.	[3 Marks]		
SECTION B 40 MARKS				
Q.7. (a	ed or modified. [10 Marks]			
	(b) Discuss various properties of minerals.	[10 Marks]		
Q.8.	(a) List the Mohs scale of hardness.	[10 Marks]		
	(b) Discuss various principle bonds used in mineralogy.	[10 Marks]		
Q.9.	(a) Discuss using examples the contribution of minerals to the Kenyan eco	nomy. [20 Marks]		