

We empower people

**Environmental Earth Studies II** 

EVE206D

08 May 2023

Sem	ester Test I	
Natio	onal Diploma: Environmental Sciences	
Lect	urer: Mr S.G Sibeko	
Que	stion 1	
1.1	List the groups into which minerals can be classified on the basis of:	
	1.1.1 Their application.	(4)
	1.1.2 Appearance in visible light	(2)
1.2	Name the PHYSICAL PROPERTIES that are used to identify minerals.	(9)
1.3	List the various crystal systems and also the minerals associated with eac crystals system.	h (6)
Que	stion 2	
2.1	List the minerals that are found in the following groups:	
	2.1.1 Oxide Group	(3)
	2.1.2 Barite Group	(3)
2.2 minei	Describe the environmental/mining implications of the following groups of rals:	
	2.2.1 Sulphates	(3)

	2.2.2 Hydroxides	(2)
	2.2.3 Sulphides	(2)
	2.2.4 Phosphates	(3)
Ques	stion 3	
3.1	Name the three groups of the salic rock forming mineral family and also give at least two minerals for each group	ve (6)
3.2	Discuss the three sub-groups of clay mineral group.	(6)
Ques	stion 4	
4.1	List the five most abundant silicate minerals on earth.	(5)
4.2	With aid of sketches describe the seven classes into which silicates are	
	divided into on the basis of their structure	(6)

**Total Marks: 60 Marks**