BINDURA UNIVERSITY OF SCIENCE EDUCATION

FACULTY OF AGRICULTURE AND ENVIRONMENTAL SCIENCE

DEPARTMENT: NATURAL RESOURCES

PROGRAMME: BSc NATURAL RESOURCES MANAGEMENT

COURSE CODE: NRM 120: INTRODUCTION TO GEOLOGY AND MINERAL RESOURCES (4)

DURATION: 2 HOURS

TOTAL MARKS: 70

" SUN 2024

INSTRUCTIONS

Answer Three questions out of the following five questions. You must answer question One from SECTION A and Two questions from SECTION B.

SECTION A (COMPULSORY)

1. (a) Define the following terms:

(i)	Gemstone,	[2 Marks]
(ii)	clastic rock,	[2 Marks]
(iii)	lava and	[2 Marks]
(iv)	hardness.	[2 Marks]
(b) State the five major geological systems of Zimbabwe.		[5 Marks]
(c) Describe the stages of the mining cycle.		[10 Marks]
(d) Descr	ribe the following types of mineral resources:	
(i) Metallic		[3 Marks]
(ii) structural and		[2 Marks]
(iii) industrial		[2 Marks]

SECTION B

2. Examine the contribution of mining to an environmental problem you have studied. [20 Marks]

. 3. Define and explain the importance of the following properties in mineral ide	entification:
(a) Colour,	[4 Marks]
(b) streak,	[4 Marks]
(c) magnetism,	[4 Marks]
(d) radioactivity and	[4 Marks]
(e) specific gravity.	[4 Marks]
4. Discuss the relationship between the major rock types and distribution of m	ineral wealth
in Zimbabwe.	[20 Marks]
5. Describe the following:	
(a) Structure of the earth	[8 Marks]
(b) Rock cycle.	[12 Marks]

END OF PAPER