BINDURA UNIVERSITY OF SCIENCE EDUCATION

FACULTY OF SCIENCE AND ENGINEERING

- MON 305TT

SUSTAINABLE DEVELOPMENT DEPARTMENT

BACHELOR OF SCIENCE HONOURS DEGREE IN DEVELOPMENT STUDIES

DG110: ENVIROMENTAL SYSTEMS

EXAMINATION

TIME: 3 HOURS

ANSWER FOUR QUESTIONS. CHOOSE <u>ONE</u> QUESTION FROM EACH SECTION.

USE ILLUSTRATIONS AND DIAGRAMS WHERE RELEVANT. MARKS FOR EACH

QUESTION ARE INDICATED IN BRACKETS [].

SECTION A: LITHOSOHERIC SYSTEMS

- 1. Crustal systems have more constrains than developmental opportunities.

 Discuss. [25]
- 2. (a) Explain the formation of the three major types of rocks. [10]
 - (b) Outline the main factors which affect the weathering process. [15]

SECTION B: ATMOSPHERIC SYSTEMS

- 3. Assess the human impacts on systems of the atmosphere. [25]
- 4. (a) Explain the three main types of scattering. [15]
 - (b) Describe and explain any atmospheric hazard. [10]

SECTION C: FLUVIAL-HYDRO SYSTEMS

- 5. Earth systems are open systems. Discuss [25]
- 6. (a) Explain the following term as they are used in hydrology

END OF EXAMINATION

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[i] Eutrophication	[5]
[ii] Interception loss	[5]
[iii] Through flow	[5]
(b) Describe and explain any three drainage patterns.	[10]
SECTION D: BIOSPHERE SYSTEMS 7. Describe and explain the different forms of relationships within the ecosystem. [25] 8. Examine the effects of climate change on different processes of the biosphere. [25]	

END OF EXAMINATION

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