## BINDURA UNIVERSITY OF SCIENCE EDUCATION

# FACULTY OF SCIENCE AND ENGINEERING

# 26 WW 5053

#### 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. Define the following terms as used in environmental geography.

i.	Environment	[5]
ii.	Cascading system	[5]
iii.	Morphological system	[5]
iv.	Process-response	[5]
v.	Feedback mechanism	[5]
a) Bri	efly describe the process of plate tectonics	[10]

b) Examine the development opportunities derived from the crustal systems

[15]

# **SECTION B: ATMOSPHERIC SYSTEMS**

3. Using illustrations explain the circulation of energy in the solar cascading system [25]

**END OF EXAMINATION** 

2.

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4. Discuss the creation of different weather conditions associated wi	th low
pressure systems in the tropical regions	[25]
SECTION C: FLUVIAL-HYDRO SYSTEMS	
5. a) With the aid of a clearly labelled diagram, explain the componer	its and
circulations in the hydrological system	[10]
b) Discuss the threats posed by the hydrological system to developmen	nt
	[15]
6. Explain the functioning of a drainage basin system as an open system	[25]
SECTION D: BIOSPHERE SYSTEMS	
7. Discuss the implications of human activities on natural ecosystems	[25]
8. Proffer any possible ways to curtail the impacts of human interference	e with
the soil system	[25]
ş.	
5	

**END OF EXAMINATION** 

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