

	FACULTY OF AC	GRICULTURE, ENGINE	ERING AND
FACULTY	NATURAL SCIENCES		
DEPARTMENT	ENVIRONMENTA	AL SCIENCE	
SUBJECT	ENVIRONMENTAL STUDIES		
SUBJECT CODE	GHE 3711		
DATE	June 2022		
DURATION	3 Hours	MARKS	100

SUPPLEMENTARY/SPECIAL EXAMINATION

Examiner

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Internal Moderator: M. Hipondoka (PhD)

INSTRUCTIONS

- 1. Present your work as neatly as possible.
- 2. This paper consists of 3 pages; including cover page.
- 3. Answer all the questions.
- 4. Use your Examination Answer Book for all the notes you make during your examination.

Renewable energy, water pollution & solid and hazardous waste:
 Match column A to column B. Write only the answer. Example: 1. Composing. Each point is allocated two marks.
 10

Column B

2

2

2

Column A

L	Column 11	Column D
Ī	1. Around 72% of the water pollution in rivers is attributed	A. Agriculture
	to	B. Composting
ŀ	2. Pollution that is discharged into the environment through pipes, sewers, or ditches is called .	C. Increased reuse of products
-	3. One of the problems associated with sanitary landfills	D. Point source pollution
	is .	E. The possibility of a
<u> </u>		methane gas
	-	explosion
-	conditioners through the process of	explosion
	5 is identified one of the goals of waste	
L	prevention.	
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2.	Pesticide management:	
	a. What are two major benefits of using pesticides?	4
	b. If pesticide use were discontinued, what pesticide	alternatives or compromise
	would be needed to maintain these benefits?	4
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3.	Water resource:	
	Discuss the role of individuals in water conservation.	
	a. What actions can you take to conserve water?	6
	b. Name 2 obstacles to the above actions.	2
4.	Fossil fuel:	
	a. Which two of the fossil fuel are often deposited toge	ther? 2
	b. Explain how the three different types of fossil fuels v	
	T T T T T T T T T T T T T T T T T T T	
5.	Human health, air pollution and climate change:	
	a. Discuss the major health effects of air pollution on a	dults. 4
	b. Discuss the major health effects of air pollution on c	
	2. 200000 and and an entire of the political of the polit	
6.	Ecosystem, living organisms, and land resources:	
	a. Discuss four ways in which forest trees are currently	harvested. 16
	b. Briefly explain which method is the most ecological	
		2

b. Explain one major advantage associated with this revolution in agriculture.

c. Explain one disadvantage associated with this revolution in agriculture.

7. Biological resources and food resources:

a. What was the green revolution?

- d. What improvements will be needed to improve agricultural productivity for the future?
- e. Explain four environmental impacts of agriculture.

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- 8. Human population, urban environment and toward sustainability:
 - a. Discuss the environmental problems associated with urban areas. Include in your discussion:
 - i. How urban areas have affected land-use patterns and destroyed wildlife habitat.
 - ii. The impact of the buildup of local heat in areas of high population density.