



COLLEGE OF AGRICULTURE, FISHERIES AND FORESTRY (CAFF)

School of Agricultural Sciences and Forestry

Bachelors of Education (Secondary) (Agricultural Science) Year 3

AGR702: AGRICULTURE, ENVIRONMENT AND CLIMATE CHANGE

Trimester 1, 2019 Final Examination

TOTAL MARKS: 100

TIME DURATION: 3 HOURS

INSTRUCTIONS TO STUDENTS

1. This paper consists of five (5) pages. Please check to see that your paper is complete.
2. You are allowed 10 minutes extra reading time in which you are not permitted to write.
3. Attach all the sheets used as your answer paper in their correct sequence and secure with a string.
4. Use both sides of the answer sheet and write your candidate number on each sheet.
5. Write clearly the number(s) of the question(s) attempted on the top of each sheet.
6. Candidates are not allowed to carry any textual material, printed or written material, bits of papers, inside the Examination Room/Hall.

“MOBILE PHONES ARE STRICTLY NOT ALLOWED”

SECTION	PARTICULARS	TOTAL MARKS
A	MCQ	10
B	Short answers	30
C	Long answers	60
	Total	100

SECTION A

MULTIPLE CHOICE QUESTIONS

(10X1=10 marks)

1. **Which is the most severe environmental consequence posed by hazardous wastes _____.**
 - a. Air pollution
 - b. Contamination of groundwater
 - c. Increased use of land for landfills
 - d. None of these

2. **Effects of contaminated rainwater is _____.**
 - a. Acid rains
 - b. Floods
 - c. Droughts
 - d. Sand storms

3. **What type of mangrove lives the furthestmost inland?**
 - a. Red
 - b. Buttonwood
 - c. White
 - d. Black

4. **What is recent environmental crises?**
 - a. Acid deposition
 - b. Global warming
 - c. Sustainability
 - d. Climate change

5. **One of the top solutions to get rid of non-biodegradable wastes is _____.**
 - a. Burning
 - b. Dumping
 - c. Burying
 - d. Recycling

6. A network of interrelated food chains is called _____.
- Food web
 - Web cycle
 - Chain web
 - Ecosystem
7. Global atmospheric temperatures are expected to be increased due to _____.
- Burning of fossil fuel
 - Water pollution
 - Soil erosion
 - None of the above
8. Global warming could disturb _____.
- Climate
 - Food production
 - Melting of glaciers
 - All of the above
9. What happens when people dump wastes from households or workshops into oceans, lakes, or rivers?
- It flows to other parts of the world
 - It kills animals and plants living there
 - It causes water pollution
 - Both answer b and c
10. What will you do if you hear a cautionary warning about Tsunami _____.
- Continue swimming and surf on the big waves
 - Continue swimming and wait for the police to alarm not to swim
 - Phone your friend about the warning
 - Quickly come out of water and move to higher ground

SECTION B

(30 MARKS)

SHORT ANSWERS

I. Provide short notes on following.

(5X3=15 marks)

1. Carbon sequestration
2. Mangroves
3. Genetic biodiversity
4. Soil pollution
5. Types of food chains

II. Provide differences between the following.

(5X3=15 marks)

1. Point source and non-point source of pollution
2. Renewable and nonrenewable resources
3. Non-degradable and degradable pollutants
4. Positive interactions and negative interactions of ecosystem
5. Natural ecosystems and artificial ecosystem

SECTION C

DESCRIPTIVE TYPE QUESTIONS

(6X10=60 Marks)

Note: All questions are compulsory.

1. Explain how global warming and El Nino events may lead to increasing natural hazards.
2. Climate change education should be addressed through education targeting a wide cross-section of stakeholders, including as students, communities, industries and governments. Discuss some of the possible ways to educate about climate change.
3. Fiji is vulnerable to a number of natural hazards such as cyclone, flood and other disasters. How is disaster mitigation taken care in Fiji?
4. Describe human activities that may result in soil and water pollution in Fiji. Suggest simple examples or ways in which this pollution could be prevented.
5. Explain biodiversity and its classification. Briefly discuss the threats to biodiversity and its conservation.
6. Development of internet facilities, Geographic Information System (GIS) and information through satellites has generated a wealth of up-to- date information on various aspects of environment and health. Write an essay on the role of information technology on environment and human health.

END OF EXAMINATION PAPER