

COLLEGE OF AGRICULTURE, FISHRIES AND FORESTRY (CAFF)

Department of Soil Science & Agricultural Chemistry

School of Agricultural Sciences

Bachelors of Education (Secondary) Agricultural Science Year 2

FINAL EXAMINATION: 2017

Trimester I, 2017

AGR702 AGRICULTURE, ENVIRONMENT AND CLIMATE CHANGE

TOTAL MARKS: 50

TIME DURATION: 3:10 HOURS

This paper consists of five (5) pages. Please check to see that your paper is complete.

INSTRUCTIONS TO STUDENTS

1. You are allowed 10 minutes extra reading time in which you are NOT permitted to write.
2. Attach all the sheets used as your answer paper in their correct sequence and secure with a string.
3. Use both sides of the answer sheet and write your candidate number on each sheet.
4. Write clearly the number(s) of the question(s) attempted on the top of each sheet.
5. 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	Part 1: Fill in the Blanks Part 2: True and False Part 3: MCQ Part 4: Short answers	20
B	Part 5: Long answers	30
	Total	50

SECTION A:

PART 1

FILL THE BLANK:

(0.5X10=5 MARKS)

1. -----diversity describes the variation in all living and non-living things in a particular geographic or ecological region.
2. -----is a method of fishing that involves pulling fishing net through the water behind one or more boats.
3. Environment rich in resources but generally low in nutrients is called as -----
-----of the Sea'.
4. -----: can be defined as the release of radioactive substances or high-energy particles into the air water, or earth as a result of human activity, either by accident or by design.
5. _____ is the discarded electronic devices like computer, TV, music systems.
6. The term -----comes from the Japanese language, meaning harbor (tsu) and wave (nami).
7. In Fiji there is only one species of -----Mangrove
8. -----diversity deals with the degree of nature's variety in the biosphere.
9. -----wastes are those that can cause harm to human and the environment.
- 10.-----diversity is the variation in the genetic composition of
individuals in a population, community or species

PART 2
STATE TRUE OR FALSE

(5X0.5=2.5 MARKS)

1. Toxic wastes are those that have a tendency to react vigorously with air or water are unstable to shock or heat, generate toxic gases or explode during routine management.
2. The pre disaster approach towards dealing with natural disasters, involving problems such as evacuation, warnings, communications, search and rescue. It is a primarily a 'Reactive Mechanism' to the natural disasters.
3. Poaching is the specific threats to certain animals are related to large economic benefits.
4. The amount of oxygen required to break down a certain amount of organic matter is called BOD.
5. A sound level of 150 dB or more can physically rupture the human eardrum.

PART 3 :

(5X0.5=2.5 MARKS)

WRITE THE LETTER OF YOUR CHOICE (EACH 0.5 MARK)

1. Which of the following is not an air pollutant?

- A. Smoke
- B. Carbon Dioxide
- C. Nitrogen Gas
- D. Sulphur Dioxide

2. Maximum amount of gas found in air is

- A. Oxygen
- B. Carbon dioxide
- C. Hydrogen
- D. Nitrogen

3. Which of the following is a biodegradable waste?

- A. Plastics
- B. Polythene
- C. Glass
- D. None of these

4. What type of radiation is trapped on the earth's surface by the green house effect?

- A. UV rays
- B. Beta-rays
- C. X-rays
- D. IR rays

5. One of the best solutions to get rid of non-biodegradable wastes is :

- A. burning
- B. dumping
- C. burying
- D. recycling

PART 4 :

(5X2=10 MARKS)

Write short answers for the following questions

Note: Attempt any FIVE (5) questions only.

1. Define marine pollution
2. What is bio magnification?
3. Define the term Eutrophication
4. How coral reefs are threatened?
5. Define bioremediation
6. El Nino
7. Write on 3 R's principle.

SECTION B

PART 5

Descriptive Type Questions

(5X6=30 Marks)

Note: Attempt any FIVE(5) questions only. All carries equal 6 marks

1. Classify disaster and explain in detail the vulnerability profile of Fiji.
2. Explain in detail about the Tsunami. What are all the damages caused by Tsunami?
3. Write the recommendations and measures for sustainable solid waste management.
4. What are climate change and global warming, and how are they related?
5. What is a Mangrove? Classify different types of Mangroves and their importance.
6. Why is Environmental and Climate change Education necessary in the present day curriculum? Discuss different methods that may be adopted for successful implementation of Environmental Education in Fiji.
7. What is Biodiversity? Describe various causes of Depleting Biodiversity. Discuss strategies for conservation of biodiversity.

END OF EXAMINATION PAPER

