

COLLEGE OF AGRICULTURE, FISHERIES AND FORESTRY (CAFF)

Department of Soil Science & Agricultural Chemistry

School of Agricultural Sciences

Bachelor of Science in Agriculture/Bachelor of Education Agriculture Science –Year 2

FINAL EXAMINATION

Trimester III, 2016

AGR702 AGRICULTURE, ENVIRONMENT AND CLIMATE CHANGE

TOTAL MARKS: 50

TIME DURATION: 3 HOURS

INSTRUCTIONS TO STUDENTS

1. You are allowed 10 minutes extra reading time in which you are NOT permitted to write.
2. This paper consists of four (4) pages. Please check to see that your paper is complete.
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	Part 1: Fill in the Blanks Part 2: True and False Part 3: Multiple Choice Part 4: Short answers	20
B	Part 5: Long answers	30
	Total	50

SECTION A:

PART 1

FILL THE BLANKS

(5X1=5 MARKS)

1.waste is the discarded electronic devices like computer, TV, music systems.
2. The termcomes from the Japanese language, meaning harbor (tsu) and wave (nami).
3. In Fiji there is only one species ofMangrove.
4.diversity deals with the degree of nature's variety in the biosphere.
5. Radiation effects can be

PART 2

STATE TRUE OR FALSE

(5X0.5=2.5 MARKS)

1. The diversity at the level of community can be measured by Alpha diversity, beta diversity, gamma diversity and omega diversity.
2. Coaching is the specific threats to certain animals are related to large economic benefits.
3. In situ conservation is the conserving of the species outside the natural habitat.
4. Mangroves are acid -tolerant plants of tropical and subtropical intertidal regions of the world.
5. Red mangroves are one of the principal genera of trees of mangrove forests, having roots with erect pneumatophores and a trunk without stilt roots.

PART 3

(5X0.5=2.5 MARKS)

WRITE THE LETTER OF YOUR CHOICE (EACH 0.5 MARK)

1. Disaster Management covers.....
 - a) Maintaining control over disasters
 - b) Reducing the effects of disasters
 - c) Briefing the top officials of govt. on the effect of disasters
 - d) All the above

2. A non-renewable source of energy is.....
 - a) Wild life
 - b) Fossils fuels
 - c) Water
 - d) forest

3. Anthropogenic extinction occurs due to.....
 - a) Earthquakes
 - b) Floods
 - c) Changing environmental conditions
 - d) Human activities

4. The term Tsunami is coined from.....
 - a) Chinese term
 - b) Indian term
 - c) German term
 - d) Japanase term

5. Which of these greenhouse gases is most abundant in the atmosphere.....
 - a) Carbon dioxide
 - b) Methane
 - c) Nitrous oxide
 - d) Water vapour

PART 4 :

(5X2=10 MARKS)

Write short answers for the following questions
Note: Attempt any FIVE (5) questions only.

1. Climate Change
2. MAP
3. Mangroves
4. E-waste management
5. Succession
6. Nuclear hazards

SECTION II

PART 5

Descriptive Type Questions

(30 Marks)

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

1. What is ecosystem? Explain the functions and characterization of ecosystem.
2. Draw and describe carbon and nitrogen cycles in detail.
3. Discuss some of the disasters occurring in Fiji with emphasis on their causes, effects and mitigation measures.
4. What is sustainable development? Discuss the three pillars of sustainable development
5. Discuss the role of information technology on environment and human health.
6. Analyze and discuss the role of climate change and its impact on agriculture with their mitigation options.
7. What is environmental pollution? Discuss its causes and effects.
8. What is Biodiversity? Enlist different types of biodiversity threats and methods of their conservation.

END OF EXAMINATION PAPER