



PAMIBIA UNIVERSITY
OF SCIENCE AND TECHNOLOGY

FACULTY OF HEALTH, NATURAL RESOURCES AND APPLIED SCIENCES

SCHOOL OF AGRICULTURE AND NATURAL RESOURCE SCIENCES

DEPARTMENT OF NATURAL RESOURCES SCIENCES

QUALIFICATION: BACHELOR OF NATURAL RESOURCES MANAGEMENT	
QUALIFICATION CODE: 07BNRS	LEVEL: 7
COURSE CODE: EEE620S	COURSE NAME: ENVIRONEMNTAL EDUCATION AND EXTENSION
DATE: JANUARY 2025	
DURATION: 3 HOURS	MARKS: 150

SECOND OPPORTUNITY EXAMINATION QUESTION PAPER	
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MODERATOR:	Mr. Wynand Diergaardt

INSTRUCTIONS
1. Answer ALL the questions. 2. Write clearly and neatly. 3. Number the answers clearly.

PERMISSIBLE MATERIALS

1. Examination question paper
2. Answering book
3. Calculator and Ruler

THIS QUESTION PAPER CONSISTS OF 6 PAGES (Excluding this front page)

SECTION A: MULTIPLE CHOICE QUESTIONS

QUESTION 1: Choose the correct answer and write the number of the question and the letter.

- 1.1. Which of the following EE Centres is not owned and managed by MEFT?
 - a) Namutoni Environmental Education Centre.
 - b) Onankali Environmental Education Centre.
 - c) Okatjikona Environmental Education Centre.
 - d) Namibia Rehabilitation, Research and Education Centre.
- 1.2. Which of these educational approaches is associated with indoor learning
 - a) Structured learning
 - b) Learning by doing.
 - c) Teaching diverse groups of different ages, sex groups, and education levels.
 - d) Lifelong learning
- 1.3. Which of the statements below explains why biodiversity is rapidly being lost?
 - a) Unsustainable use of natural resources.
 - b) Increased land, air and freshwater pollution.
 - c) Uncontrolled invasion of alien species
 - d) Mass rural-to-urban migration of people.
- 1.4. Which of the following facts is not true for climate change?
 - a) Farming with tropical fruits like pineapples.
 - b) Rain-fed crop farming will be impossible; cattle farming will shift to the north as central.
 - c) Winter rain will decrease in the south and increase in the north, making crop farming possible without irrigation.
 - d) It will be possible to convert our desert into productive commercial farming region
- 1.5. Which of the following is not a group extension method?
 - a) Symposium
 - b) Seminar
 - c) Face-face-face meeting
 - d) Workshop
- 1.6. Namibia is a signatory to many international agreements. Which one of the following relates to sustainable living?
 - a) Abolishing of forced labour convention
 - b) Africa Free Wildlife Zone.
 - c) Agreement related to the free movement of wildlife.
 - d) International Union for Conservation of Nature

- 1.7. Which of these is the definition of extension?
- a) A process to ensure an environmentally aware population that can evaluate and make sensible decisions to help solve environmental challenges.
 - b) Conscious social influence to take action to make the world a better place for all living things.
 - c) Living so as not to harm the environment nor restrict the ability of present and future generations to live and develop in a healthy environment.
 - d) Conscious communication of information to help people form sound opinions and make good environmental decisions.
- 1.8. Give the name of an insect whose reproduction success is affected by global warming.
- a) Ancient rhinoceros
 - b) Edith's moth
 - c) The quagga
 - d) The tiger
- 1.9. 90% of wetlands in Britain have been lost. What is the cause of this loss?
- a) Pollution of the fynbos land by agrichemicals.
 - b) Clearing of land for settlement development and agricultural activities.
 - c) Climate change.
 - d) Cutting down of trees for timber.
- 1.10. Which of the following describes behaviourist educational approach?
- a) Classic teaching
 - b) The teacher is a guide
 - c) Outdoor learning.
 - d) Learning from experience.

[10]

SECTION B: TRUE OR FALSE QUESTIONS

QUESTION 2: State whether each statement below is true or false.

- 2.1. Environmental Education is a structured learning process that deals with children to train them while they are still young.
- 2.2. Rural development causes urbanisation.
- 2.3. Constructivism is an educational approach in which a teacher is a guide and mediator.
- 2.4. Nutrients like phosphate and nitrogen are the major causes of eutrophication.
- 2.5. Tigers are a main target of illegal wildlife trade in Africa.
- 2.6. Animals that have to undergo metamorphoses are at risk of extinction due to climate change, which has altered ecological processes.

2.7. It is against the law to complain about the misuse or overuse of natural resources in Namibia.

2.8. Environmental education policy ensures that people move away from awareness to actions to solve environmental problems.

2.9. The group extension method is more expensive than the face-to-face as many people are involved.

2.10. The acronym GCF stands for Giraffe Conservation Fund.

[10]

SECTION A+B SUBTOTAL: 20

SECTION C: Short answer questions.

QUESTION 3

3.1. Provide the definition of biodiversity. (1)

3.2. In your own words explain article 95(c) of the Namibian Constitution? (4)

3.3. In 1988, 40 countries signed an agreement called the Montreal Protocol. What was the aim of the agreement? (1)

3.4. Give the name of an important international conference held in 1972 that linked the environment and development. (1)

3.5. Propose or suggest three solutions to mitigate or reduce water wastage for citizens of Windhoek. (3)

3.6. What kind of solution would you advise a community whose problem is land pollution/littering? (2)

3.7. Which educational approach considers the learners knowledge and works towards building on that? (1)

3.8. Namibia hosted the 11th UNCCDCOP in September 2013, where Strategies to cope with desertification were formulated. What are these strategies? (4)

3.9. For a message to have an impact, an extension officer needs to know their target group or audience. What is the information you need about your target group? (5)

3.10. Mention the 5 Tbilisi principles that deal with environmental education (the method how it should be done). (5)

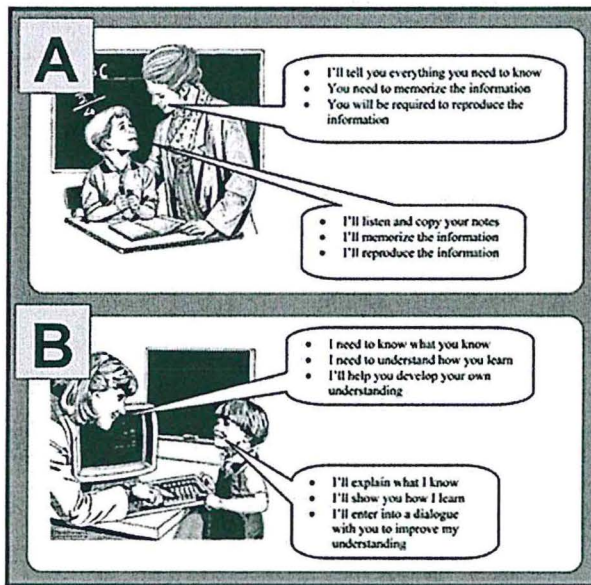
[27]

QUESTION 4

4.1. What are the disadvantages of using the field excursion method for extension work?
Provide three only. (3)

4.2. In communication, the effect of a message is 2/3 of the whole process. Extension officers are, most of the time, senders of messages. Explain the qualities of the sender to ensure that a message has an impact on the receiver. (6)

4.3. Study the diagram below.



Name and compare the educational approaches represented by the diagram. (14)

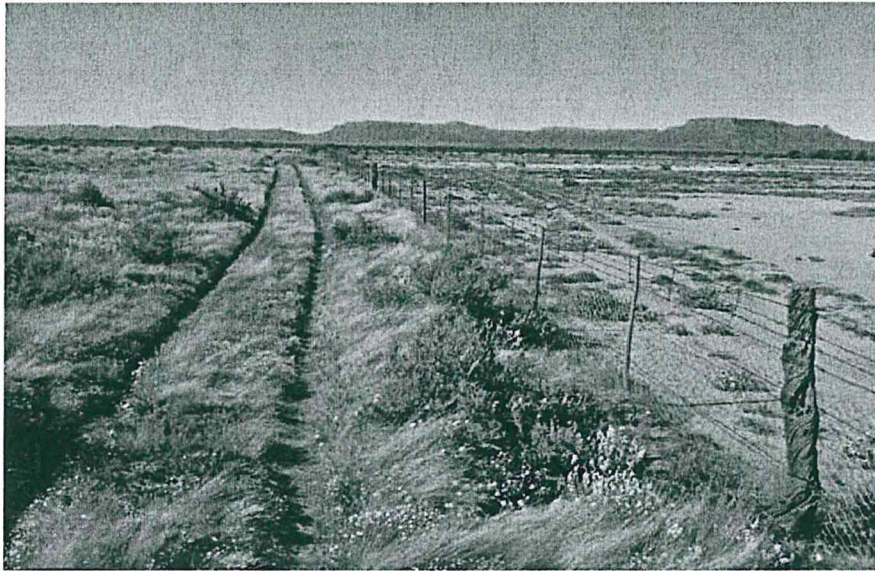
[23]

QUESTION 5

5.1. Use the diagram below to answer the following question. How would you plan for this event? (hint, Daan Viljoen Field Day). (10)



5.2. Carefully study the diagram below and answer the question that follows.



Identify this extension method and provide its advantages and disadvantages. (6)

[16]

QUESTION 6

6.1. Provide tips for an extension officer to deliver an impactful message. (7)

6.2. Discuss or explain the climate solutions, particularly in Namibia, where most of the population relies on farming for sustenance. (5)

[12]

QUESTION 7

7.1. Provide an Agenda for this meeting. Meeting of the department of the students of Natural Resource Sciences. (5)

7.2. Written communication is an important part of extension work. Extension workers must know what you are communicating and how you do it. Explain RAFTS. (5)

7.3. Briefly explain what we, as inhabitants of the planet Earth, need to do to ensure that the negative impacts of climate change are mitigated. (3)

[13]

QUESTION 8

- 8.1. As an extension worker, what would you do when you first form a group for group extension work? (hint: you are just a facilitator). (5)
- 8.2. Provide any 5 tips an extension can use when planning and conducting field day extension work. (5)
- 8.3. Extension workers are facilitators who help people find solutions to their problems. Explain what a good facilitator does to ensure a successful extension activity. (6)
- 8.4. What are the advantages of a group work extension method? Give any 5. (5)

[21]

QUESTION 9

- 9.1. The chairman leads the meeting, keeps order, and acts as an impartial referee and leader. Outline the 5 tasks that a chairman must perform during a meeting. (5)
- 9.2. Question time is an extension method used face-to-face or via radio or TV call-in programmes. What are the advantages and disadvantages of this method? (6)
- 9.3. The group extension method has the advantage of a message reaching a large audience. Provide the tips an extension officer can use to ensure a successful group work activity. (7)

[18]

TOTAL: 150

=====END OF PAPER=====