



**NAMIBIA UNIVERSITY  
OF SCIENCE AND TECHNOLOGY**

**FACULTY OF NATURAL RESOURCES AND SPATIAL SCIENCES**

**DEPARTMENT OF AGRICULTURE AND NATURAL RESOURCES SCIENCES**

<b>QUALIFICATION: BACHELOR OF NATURAL RESOURCES MANAGEMENT (NATURE CONSERVATION)</b>	
<b>QUALIFICATION CODE: 07BNTC</b>	<b>LEVEL: 6</b>
<b>COURSE: METHODOLOGY OF ENVIRONMENTAL EDUCATION</b>	<b>COURSE CODE: MEE 620S</b>
<b>DATE: JANUARY 2019</b>	<b>SESSION:</b>
<b>DURATION: 3 HOURS</b>	<b>MARKS: 130</b>

**SECOND OPPORTUNITY EXAMINATION QUESTION PAPER**

**EXAMINER: Ms. S. Bethune**

**MODERATOR: Mr. W. Diergaardt**

**INSTRUCTIONS**

1. Write clearly and neatly
2. Answer ALL questions, note choices
3. Number the answers correctly

**PERMISSIBLE MATERIALS**

1. Examination Paper
2. Examination Script

This paper consists of six (6) pages, including this front page.

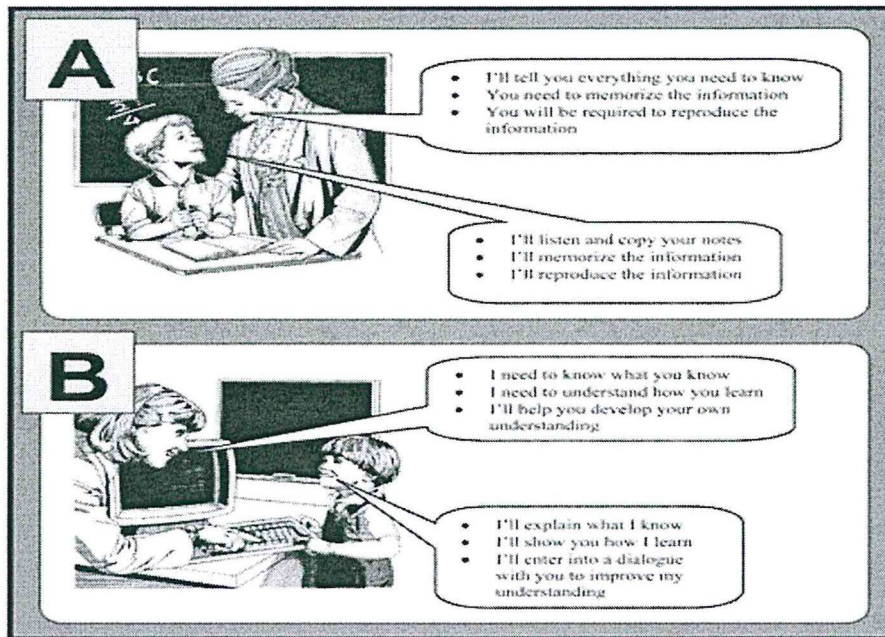
**QUESTION 1: COMMUNICATION OF ENVIRONMENTAL ISSUES**

- 1.1 Based on the series of “*State of the Planet*” videos that you watched, alien invasive species and air pollution are two of the important causes of biodiversity loss world-wide.
- 1.1.1 Briefly discuss a **Namibian example** of each. (2)
- 1.1.2 The use of wind turbines can help to reduce air pollution caused by burning fossil fuels, but can have negative impacts on the environment. Give an example of a negative impact of using this alternative energy type. (1)
- 1.2 Your old High School has invited you to give an interactive presentation to the Grade 8s to tell them about Deforestation and to encourage them to take Action at their school. The teacher asked you to introduce this global issue and give the situation in Namibia, as well as to encourage the learners to think about practical solutions they themselves could implement on Arbour Day. Be sure to end with a clear message. (10)  
 Show the lay-out for this **10 minute, interactive** presentation, using **5 slides**.  
 Draw the outline of each slide, give the headings, the main text points and either sketch or describe the Illustrations you will use.
- 1.3 Your classmate, who is doing WIL at the Cheetah Conservation Trust has invited to give a presentation at the Windhoek Agricultural and Industrial Show on the importance of de-bushing in the Otjiwarongo district. Recall what you learnt from the PowerPoint presentations you and your classmates gave on environmental issues, give your classmate **five** tips to ensure a good PowerPoint presentation. (5)
- 1.4 Eye-contact is important to keep the attention of your audience during a presentation. Briefly **discuss** how you should maintain eye-contact. (2)

**[20]****QUESTION 2: ENVIRONMENTAL EDUCATION**

- 2.1 What do we mean by Education for Sustainable living? (2)
- 2.2 Two important meetings on Environmental Education were held in the town Tbilisi, the first in 1977 and another, 35 years later, under the theme “*Educate today to sustain the future*” (3)  
 What important contribution did Namibia contribute to the 40 point communiqué at the Tbilisi + 35 meeting **and** what does this mean, **and** name the Namibian EE Centre that really puts this into practice?

2.3 Study the illustration below.



2.3.1 Use a table to **name** and **compare** the two educational theories illustrated here, in terms of: Environmental Intention, 2 Methods Used and the Role of the Teacher. (10)

2.3.2 Which word/phrase would you rather use for Environmental Education and why? (1)

[16]

**QUESTION 3: PUBLIC SPEAKING**

3.1 The Salambala Conservancy have invited you as an MET researcher to give a presentation on the use of chilli bombs to keep elephants away from crops. Mention **four** important things that you need to know **before** you can prepare your talk. (4)

3.2 As you know, **posture or body language** is very important when presenting a speech. Describe **three** common mistakes that you should avoid making. (3)

[7]

**QUESTION 4 : EFFECTIVE COMMUNICATION, CRITICAL THINKING AND BARRIERS**

4.1 The main components of communication can be summed up by the **S M C R E Communication Model**. Indicate what each letter in this acronym stands for **and** give a brief explanation of each. (10)

4.2 Recall the video, "*12 Angry Men*", where the main character, the architect, Mr. (6)

MacArthur, has difficulty persuading the other jury members to critically assess the evidence.

Name and discuss **six Critical Thinking skills** displayed by Mr McArthur, **and motivate** how he uses each to gradually persuade the other jury members that 'reasonable doubt' exists.

[16]

#### QUESTION 5: FACE TO FACE COMMUNICATION

- 5.1 As an employee of M.E.T. stationed in Mahango Core Area of the Bwabwata National Park, your supervisor has sent you to the headman of the Kamutjonga village to talk about the lions from the park killing livestock near the village. Recall what you learnt about face-to-face communication and the importance of first impressions. Discuss **5** important things to remember when first meeting the headman. (5)
- 5.2 Cheetah, recently translocated by the Ministry of Environment and Tourism, have strayed out of the Namib Naukluft Park and an angry, small-stock farmer has made an appointment to come and see you in your M.E.T. office at Zaris. In **6** points, explain how you would conduct this interview. (6)

[11]

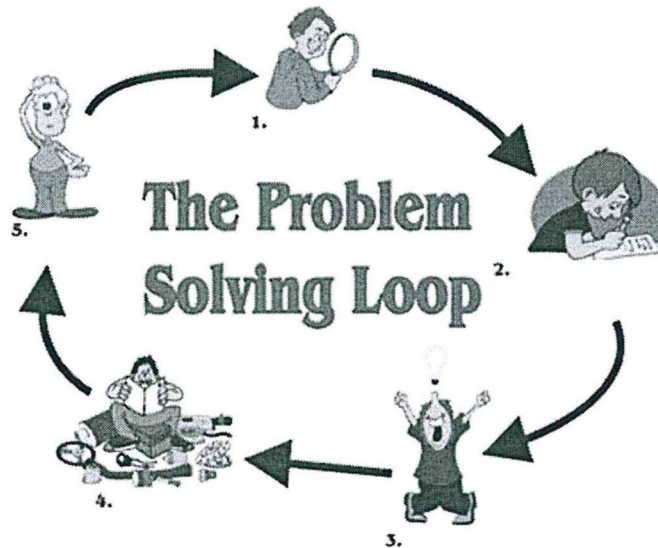
#### QUESTION 6 : WRITTEN COMMUNICATION

Write a short (120 word) newsletter item for the next edition of the NaDeet environmental magazine "*Bush Telegraph*" about the feeding behaviour of Bat-eared foxes, aimed at stopping farmers from treating them like problem animals. Also give the caption of the illustration you will use to illustrate this. (8)

[8]

#### QUESTION 7: WORKING WITH COMMUNITY GROUPS

- 7.1 Often working as a group is a very effective way of involving a community in a project. You would like to encourage village women to conserve natural resources, such as firewood by initiating a project to promote the use of solar dishes and ovens. How would you go about forming such a working group in the village? (6)
- 7.2 As an extension officer, one of your roles is to help communities with decision-making and finding their own solutions to the challenges they face. You, as an M.E.T extension officer working in the Torra conservancy in Kunene Region, have been invited to assist the community to reach a decision on what to do about lions from the Palmwag Concession area, preying on their livestock. Use the problem-solving loop given below, to help you to also recall **8 steps in their logical sequence** that you would follow to help the community reach a good, practical decision. Remember to add the three missing steps too (8)



[14]

**QUESTION 8: GROUP EXTENSION METHODS**

Indicate which group extension method would be best suited to each situation and briefly explain why.

- 8.1 Participants at a community workshop on the impacts of different fishing methods on the Okavango river and floodplains need to explore the advantages and disadvantages of each of five fishing methods. (2)
- 8.2 Alien invasive control has been very effective at Waterberg and you would like to teach members of Doro !nawas Conservancy how to control their alien invasive *Nicotiana glauca* infestation in the Ugab River (2)
- 8.3 M.E.T. has offered to reintroduce game into the Oskop Conservancy in the Hardap Region, but the conservancy committee first need to learn more about monitoring their rainfall, vegetation and game numbers using the events book system. (2)
- 8.4 Veterinary experts and ornithologists working with migrating sea-birds want to gain in-depth knowledge about the causes and spread of Avian flu so that they can better understand if Palearctic migrants might spread the disease. (2)
- 8.5 The Gobabeb Research and Training Centre (G.R.T.C.) is having an open day and needs an entertaining way to make the visitors more aware of the importance of floods and how water resources are shared by the river ecosystem, upstream and downstream. (2)

[10]

### QUESTION 9: PARTICIPATORY RURAL APPRAISALS

- 7.1 Explain why and how you would conduct a pair wise ranking matrix for a community that you are familiar with. Begin by introducing your community saying where they live, give an example of what they may want to rank and finally explain exactly how pair wise ranking is done. (10)
- 7.2 Identify five natural resource management (NRM) related problems and construct a pair wise ranking matrix for the above community and interpret the matrix. (10)

**[20]**

### QUESTION 10: EFFECTIVE MEETINGS

Based on your experience as a class that held several formal meetings to plan the 2018 Arbour Day event at the Cheetah Conservation Foundation, CCF. As secretary draw up the **6 point agenda**, for the wrap up, feedback, meeting held after the successful event. (8)

**[8]**

**TOTAL MARKS 130**