



FACULTY	: Faculty of Education
DEPARTMENT	: Childhood Education
CAMPUS	: SWC
MODULE	: Culture and the Natural Environment 3A-CNE10A3
SEMESTER	First
EXAM	: June Examination 2018
DATE	
SESSION	
DURATION	: 2 Hours
MARKS	: 100 marks
	: H. Van der Haar—Lockie (University of Johannesburg)
ASSESORS	: K. Nthimbane (University of Johannesburg)
MODERATOR	: Dr E. Jansen van Vuuren (University of Mpumalanga)

NUMBER OF PAGES: 5 PAGES

INSTRUCTIONS:

1. Answer ALL THE QUESTIONS.
2. Number your answers clearly
3. Answer Section A and Section B in separate books

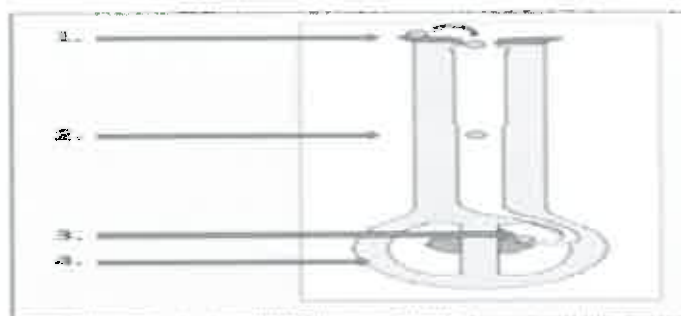
SECTION A: Please answer this section in a separate book.

QUESTION 1

- 1.1 Larger eyes are the most identifiable of nocturnal animal adaptations. Elaborate further on this statement by discussing 2 of the eye adaptations in more detail.(4)
- 1.2 The hydrological cycle displays 4 states of matter. In 1 paragraph, discuss each of these 4 states of matter. (8)
- 1.3. The diagram on the following page depicts a particular type of pollination. Name

and provide a description thereof.

(5)



1.4 In a paragraph, name and describe the various types of abiotic pollination. (8)

TOTAL FOR QUESTION 1: 25 marks

QUESTION 2

2.1 You have entered the Sci-Bono competition for prospective candidates in the B.Ed (Foundation Phase) programme. Write your entry to this competition based on the following guidelines:

Participants are to write a 1½ page essay about the role of the Foundation Phase teacher in inquiry-based lessons in the Life Skills subject of the Foundation Phase.

(15)

2.2 Read the statement below and answer the question which follows:

'Because of a lack of knowledge with regard to various teaching models, teachers in the Foundation Phase do not spend as much time as they should on the teaching of Beginning Knowledge in Life Skills.'

Write a 1 page essay in which you differentiate between the various teaching models in science which are available for teachers in the Foundation Phase. (10)

TOTAL FOR QUESTION 2: 25 marks

QUESTION 3

3.1. Select the correct answer

3.1.1 _____ are needed for energy to flow: (1)

- A) Plugs
- B) Wood
- C) Conductors
- D) Inductors

3.1.2. _____ has a definite volume but no definite shape. (1)

- A) Solid
- B) Gas
- C) Liquid
- D) All the above

3.1.3. The transfer of heat from the sun is referred to as _____? (1)

- A) Conduction
- B) Convection
- C) Radiation
- D) All the above

3.2. Provide comprehensive definitions for each of the terms listed below:

3.2.1. Energy (1)

3.2.2. Chemical energy (1)

3.2.3. Renewable resources (1)

3.2.4. Non-renewable resources (1)

3.2.5. Livestock (1)

4. In one paragraph, provide a brief account of the history of sailing ships. (5)

5. Write a paragraph in which you name and describe the properties of waves and sound. (12)

TOTAL FOR QUESTION 3: 25 marks

QUESTION 4

4.1 You have been tasked by your mentor teacher to teach a Life Skills lesson to a Grade 2 class on the topic of the solar system. Create a lesson plan that reflects your understanding of what should be taught for this topic. Your lesson plan should include the following key elements:

- An aim
- Objectives
- LTSM (learning and teaching support materials)
- The introductory, body and consolidation phase of lesson planning.
- The role of the teacher
- The role of the learner

(25)

TOTAL FOR QUESTION 4: 25 marks

