



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

**NUMBER OF PAGES: 3 PAGES**

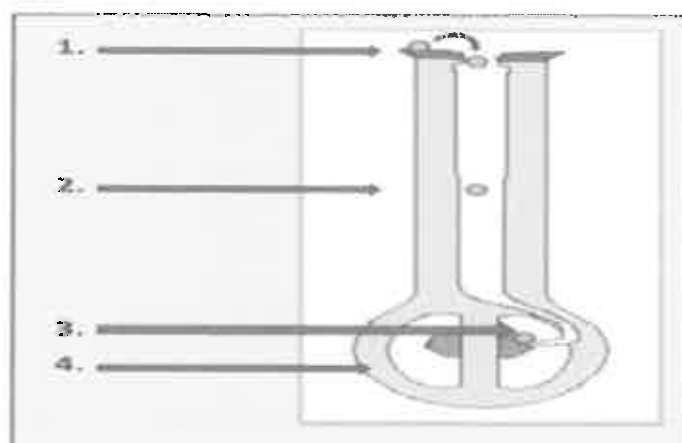
**INSTRUCTIONS:**

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 diagramme below 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**

**SECTION B:** Please answer this section in a separate book.

## **QUESTION 3**

- 3.1 Answer the following questions:

- 3.1.1. How would you define the study called astronomy? (1)
- 3.1.2. What is the solar system? (1)
- 3.1.3 Define the term Natural gas. (1)
- 3.1.4 What type of energy conversion does a motor perform? (1)
- A) Chemical energy into mechanical energy
  - B) Mechanical energy into electrical energy
  - C) Electrical energy into mechanical energy
  - D) Mechanical energy into chemical energy
- 3.1.5. What type of energy conversion does a generator perform? (1)
- A) Chemical energy into mechanical energy
  - B) Mechanical energy into electrical energy
  - C) Electrical energy into mechanical energy
  - D) Mechanical energy into chemical energy
- 3.2 Draw a parallel and series circuit and provide five characteristics of these types of circuits. (20)

**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 transportation in South Africa. 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**