Noah's Ark Independent Primary School

Subject: NS&T	Examiner: Moyo, S.
Type: End of Year Exam	Moderator: Rwizi, A.
Date: 25 November 2019	Grade: 5
Marks: 60 Marks	Time: 1 hr 30 minutes

Name: _____

Instructions:

Answer ALL the questions in the spaces provided.

Write neatly and legibly

Carefully read all questions before answering

Section A: Planet Earth, beyond and system control

1. Use the images below to answer the following questions.

1.1 Identify the following images as either body or trace fossils. $(3 \times \frac{1}{2})$

Picture A: _____

Picture B: _____

Picture C: _____

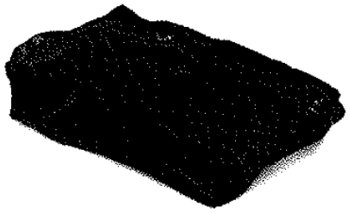
1.2 Suggest one reason for the importance of fossils. (1x1)

_____

2. Name the three types of sedimentary rocks. (3x1)

_____ _____ _____

3. Identify the 3 types of rocks shown below: (3x$\frac{1}{2}$)



3.1 _____ 3.2 _____ 3.3 _____

3. Read through the text about the Coelacanth discovery below and answer the questions that follow.

The Discovery of the Coelacanth in South Africa

On 23 December, 1938, the *Nerine* entered port after a stint trawling off the mouth of the nearby Chalumna River. The dockman called Marjorie, who was busy mounting a reptile collection, and felt she ought at least go down to the docks to wish the crew of the *Nerine* a merry Christmas.

She took a taxi, delivered her greetings and was about to leave when, according to her account, she noticed a blue fin protruding beneath a pile of rays and sharks on the deck. Pushing the overlaying fish aside revealed, as she would later write, "the most beautiful fish I had ever seen, five feet long, and a pale mauve blue with iridescent silver markings". Marjorie had no idea what the fish was, but knew it must go back to the museum at once. At first the taxi driver refused to have the reeking, five-foot fish in his taxi, but after a heated discussion, he drove Marjorie and her specimen back to the museum.

3.1 State the name of athe ship that caught this strange fish. (1x1)

_____

3.2 Describe how Marjorie noticed the fish on the ship. (1x1)

_____

_____

3.3 Explain why Marjorie was at the docks that day. (1x1)

_____

_____

3.4 Explain why the taxi driver did not want the fish in his car. (2x$\frac{1}{2}$)

_____

_____

4. Distinguish between the Earth's rotation and Earth's revolution. (4x$\frac{1}{2}$)

_____

_____

_____

_____

5. Briefly summarise how soil forms. (2x1)

_____

_____

_____

Section B: Energy and Change, Systems and Contols

1. Fuels are sources of useful energy and we burn them to get useful output energy.

   1.1 List three everyday fuels. (3x1)

   _____ _____ _____

   1.2 Name two things that everyday fuels need to set them alight. (2x$\frac{1}{2}$)

   _____

   _____

   1.3 Predict what will happen to a candle if a glass jar is placed over it and explain why. (2x1)

   _____

   _____

2. Explain how energy can be stored in elastics. (1x1)

   _____

   _____

3. Look at the picture of the bicycle.

3.1 Explain why a bicycle is a system. (1x2)

_____

_____

3.2 Write down the letters of the labels that point to the wheel axle. ($4x\frac{1}{2}$)

_____

_____

3.3 Name the type of axle found in a bicycle. (1x1)

_____

3.4 Give reasons why a wheel needs an axel. (2x1)

_____

_____

_____

_____

4. There is call to move away from using coal to generate electricity. Justify why the call is proper. (1x1)

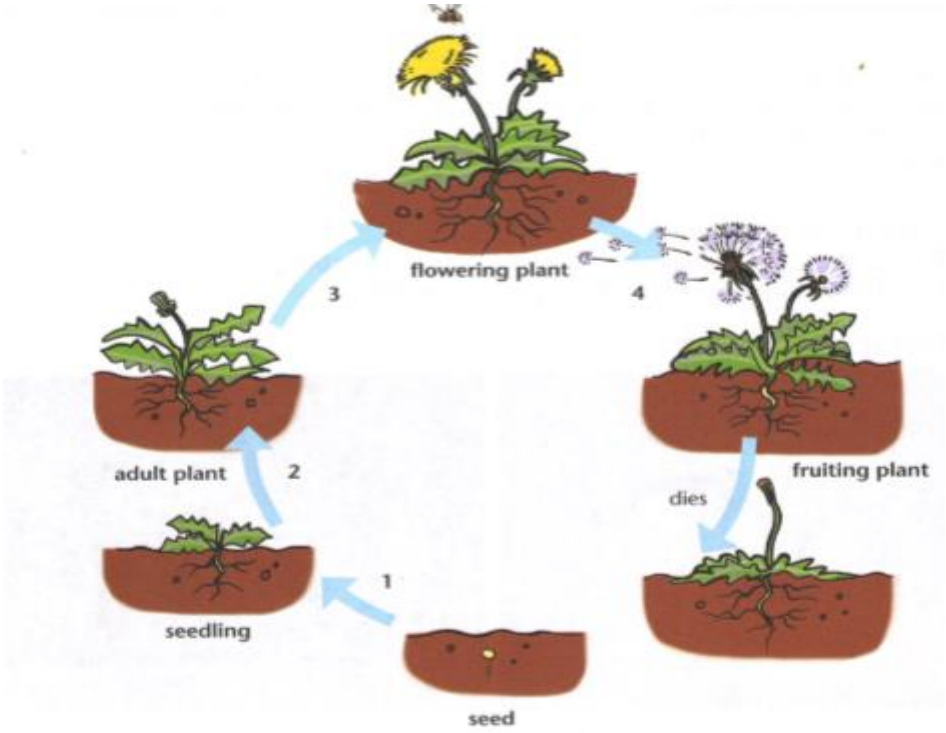
_____

_____

Section C: Life, living and structures

1. Look at the picture of the life cycle below of the dandelion plant.

   Fill in the missing labels for the processes 1 to 4. (4x1)



Process 1 : _____

Process 2 : _____

Process 3 : _____

Process 4 : _____

2. Study the pictures below and answer the questions that follow.

2.1 When the above organism are ordered in order according to their feeding relationship they form a _____.(1x1)

2.2 Explain where the protea plant gets its food from. (2x1)

_____

_____

2.3 Classify the above organisms into producer, carnivore and herbivore. (3x1)

_____

_____

_____

3. Complete the following table. (3x1)

Part of skeleton	What it protects
3.1	Lungs and heart.
3.2	Brown.
Backbone	3.3

4. Differentiate between vertebrates and invertebrates. $(4 \times \frac{1}{2})$

_____

_____

Section D: Matter, materials and processing

1. Metals have properties that non-metals do not have. Answer the following sentences with the word that describes a special property of a metal. Use the word bank below to answer.

Word bank		
rust	melt	magnet
malleable	heat	ductile

1.1 Some metals, such as iron, are attracted to a special material called a _____. (1x1)

1.2 A metal that can be pulled into a wire shape is _____. (1x1)

1.3 A metal that can be pounded into a shape is _____. (1x1)

1.4 Iron is a metal that forms a red powdery substance in air or water. Iron is a metal that _____. (1x1)

2. Describe the property of a raincoat that makes it useful. (1x2)

_____

_____

3. Flour and water can be mixed to form a paste or glue.

3.1 Describe two properties of flour before being mixed. (2x$\frac{1}{2}$)

_____

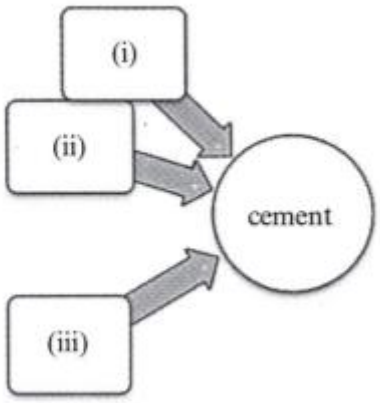
3.2 Describe a property of the glue or paste. (1x1)

_____

3.3 Explain why glue or paste is useful. (1x1)

_____

4. Give the starting materials to complete the flow diagram for the making of cement. (3x1)



_____

_____

_____

5. Look at the picture below and answer the questions that follow.

Name the traditional processing methods used to make pots. (1x1)

_____

6. A group of learners left a piece of wire and a nail in a jar of water. Three days later they found the nail had a reddish-brown powder on it. The wire did not change colour.

Suggest a reason why the wire did not change colour. (1x2)

_____

_____

_____ / 60 Marks