GRADE 7 NATURAL SCIENCES TASK 10 – OPEN BOOK TEST

TOTAL : 50 MARKS

DURATION : 60 MINUTES

QUESTION ONE   (3)

Choose the correct answer for each incomplete sentence from the options provided. Write down the number and the correct letter.

E.g. 1.5. E

1.1) Blue litmus paper ………   (1)

A) turns red in the presence of acid

B) turns blue in the presence of acid

C) turns red in the presence of a base

1.2) The periodic table of elements……..   (1)

A) is a classification system for elements and plants

B) is a classification system for metals

C) is a classification system for elements

1.3) Metals……..   (1)

A) are all gases

B) have a variety of different properties – either solids or gases

C) are strong, ductile, malleable solids and have a high boiling point

QUESTION TWO (8)

Describe what the following words mean.

2.1) Flexibility (2)

2.2) Electrical conductivity (2)

2.3) Boiling point (2)

2.4) Homogenous mixture (2)

QUESTION THREE (16)

Answer the following questions

3.1) Identify two (2) examples of how you would separate mixtures (2)

3.2) State THREE negative consequence of poor waste management and explain. (6)

3.3) Explain how the transport of oil could affect the habitat of marine animals? (2)

3.4. You have a mixture of sand, iron filings, and sawdust in a beaker of water. Explain how you can separate this mixture (step by step) and WHY you chose these methods. (6)

QUESTION FOUR (4)

Describe the colour change that will occur when:

4.1. Red litmus paper is placed in vinegar (2)

4.2. Blue litmus paper is placed in toothpaste (2)

QUESTION FIVE (4)

5.1. Write down the elements for the following symbols.

5.1.1. He (1)
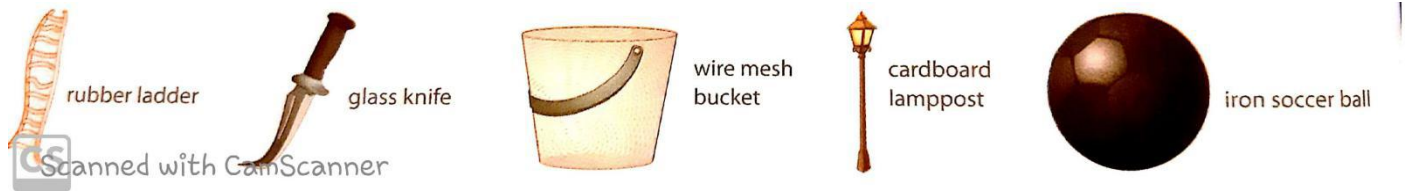
5.1.2. Na (1)

5.2. Provide the atomic number for:

5.2.1. Nitrogen (1)

5.2.3. Magnesium (1)

QUESTION SIX (15)

Study the objects that are made from different materials.

rubber ladder   glass knife   wire mesh bucket   cardboard lamppost   iron soccer ball

6.1. For each object, explain why the material used is not suitable. (5)

6.2. Copy the table below and complete it. (10)

Object	Property that material must have	Suitable material
Ladder		
Knife		
Bucket		
Lamp post		
Soccer ball		

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