

SCIENCE

**Topic: Electricity and magnetism**

1. In which units is electric current measured?

\_\_\_\_\_

2. Using an arrow, show the direction of current in the circuit below.



3(a) What is electric resistance? \_\_\_\_\_

\_\_\_\_\_

(b) Which of the conductors below has low resistance?



\_\_\_\_\_

4. Why are secondary cells called storage cells?

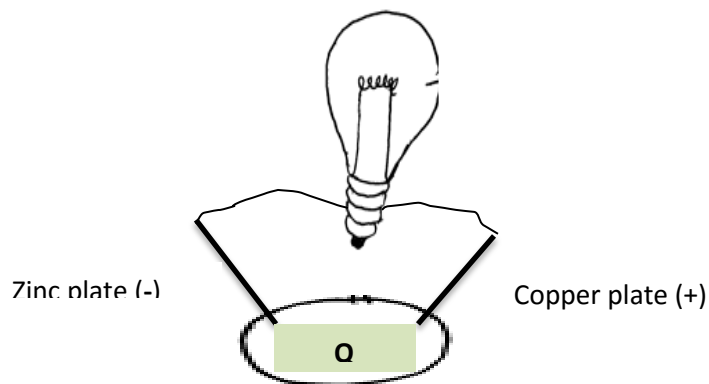
\_\_\_\_\_

5(a) In the space provided below draw the symbol of a fuse.

(b) How does a fuse work? \_\_\_\_\_  
\_\_\_\_\_

(c) How is a fuse adapted to its work?  
\_\_\_\_\_  
\_\_\_\_\_

6. Use the diagram below to answer questions that follow.



(a) Name the source of electricity shown above.  
\_\_\_\_\_

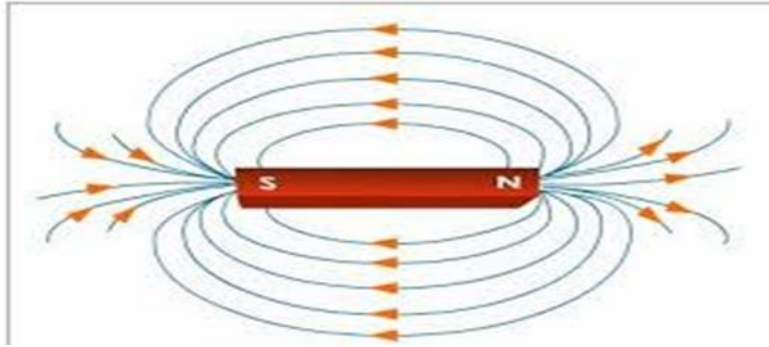
(b) Which scientific name is given to liquid Q. \_\_\_\_\_

(c) Mention two problems of the above source of electricity.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

7. State the property of magnetism shown below.



8(a) Why is the filament in an electric bulb coiled?

\_\_\_\_\_

(b) Give the mineral from which tungsten is got.

\_\_\_\_\_

9. State two ways how the strength of an electro magnet can be increased?

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

10. How is a permanent magnet made?

\_\_\_\_\_

11(a) Mention two examples of natural magnets.

(i) \_\_\_\_\_ (ii) \_\_\_\_\_

(b) How is a magnet useful to the doctor?

\_\_\_\_\_

12. Name the unit of an atom which is negatively charged.

\_\_\_\_\_

13(a) What is a short circuit? \_\_\_\_\_

\_\_\_\_\_

(b) State two causes of short circuit.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

(c) Give one danger of short circuit.

\_\_\_\_\_

**Topic Population and health**

1. Give two examples of metabolic diseases.

(i) \_\_\_\_\_ (ii) \_\_\_\_\_

2. What are antisocial behaviors? \_\_\_\_\_

\_\_\_\_\_

3. State two causes of sickness in a community.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

4(a) Give two examples of sexual deviations

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

(b) State one way of controlling sexual deviations

\_\_\_\_\_

5(a) Give two examples of health clubs.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

(b) State one role of a health club in the school.

\_\_\_\_\_

6. Define the term delinquency. \_\_\_\_\_

\_\_\_\_\_

7. Mention the two types of dysentery,

(i) \_\_\_\_\_ (ii) \_\_\_\_\_

**Energy resources in the environment.**

1. What are energy resources? \_\_\_\_\_  
\_\_\_\_\_

2. Name two energy resources in the environment.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

3. Give one way how we can make use of energy resources from wind?

\_\_\_\_\_

4. Give two examples of fossil fuel.

(i) \_\_\_\_\_ (ii) \_\_\_\_\_

5. What is fuel? \_\_\_\_\_  
\_\_\_\_\_

6. Name the main source of energy.

\_\_\_\_\_

7. Which energy resource results from fermentation of plants and animals residues? \_\_\_\_\_

**Topic: Skeletal system**

1(a) What is a skeleton? \_\_\_\_\_  
\_\_\_\_\_

(b) List down three types of the skeleton.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

(iii) \_\_\_\_\_

(c) State four functions of the skeleton.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

(iii) \_\_\_\_\_

(iv) \_\_\_\_\_

2(a) What structure joints bones to bones to make a joint?

\_\_\_\_\_

(b) Why should joints have synovial fluids?

\_\_\_\_\_

(c) What type of skeleton do the following creatures have?

(i) Slugs: \_\_\_\_\_

(ii) Tortoise: \_\_\_\_\_

(iii) Crocodile: \_\_\_\_\_

(iv) Snails: \_\_\_\_\_

3(a) Give two examples of the flat bones.

(i) \_\_\_\_\_ (ii) \_\_\_\_\_

(b) Give the two divisions in which the endo skeletal system is divided.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

(c) In which part of the skeleton do we find the suture joint?

\_\_\_\_\_

(d) How is a gliding joint different from the hinge joint?

\_\_\_\_\_

4(a) What is excretion? \_\_\_\_\_

\_\_\_\_\_

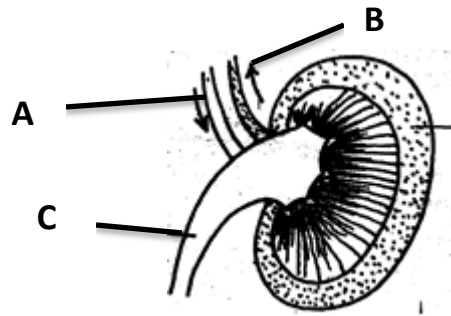
(b) What waste products are excreted by the following organs?

(i) Lungs: \_\_\_\_\_

(ii) Kidney: \_\_\_\_\_

(iii) Skin: \_\_\_\_\_

5. Use the diagram to answer questions that follows



(a) Name blood vessels **A** and **B**.

(i) **A**: \_\_\_\_\_ (ii) **B**: \_\_\_\_\_

(b) What materials are carried by tube **C**? \_\_\_\_\_

(c) In which region in the kidney does filtration of blood take place?

\_\_\_\_\_

(d) What type of blood is carried by blood vessel **B**?

\_\_\_\_\_

6(a) State three functions of the liver.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

(iii) \_\_\_\_\_

(b) How is bile an important substance in the body?

\_\_\_\_\_

(c) State one disease that affects each of the following organs.

(i) Lungs: \_\_\_\_\_

(ii) Skin: \_\_\_\_\_

(iii) Kidneys: \_\_\_\_\_

(iv) Liver: \_\_\_\_\_

7(a) Give two examples of energy resources in the environment.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

(b) How can you preserve energy resources in the environment?

\_\_\_\_\_

(c) Give two ways in which the use of solar energy can help to conserve the environment.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

(d) State one living energy resource in the environment.

\_\_\_\_\_

(e) What is tidal energy? \_\_\_\_\_

\_\_\_\_\_

8(a) List down two examples of biofuels.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

(b) Give two energy resources we get from wood.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_



(c) Apart from being used as solar energy resource, give other two ways the sun is used as an energy resource in the environment.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

*End*