



Ek Burapa School
G6 Science Examination, Sept. 2024

Name: _____

Grade: 6/____

No: _____

Subject: Science "Adaptations; Separation Techniques; Electric Circuits"

Date: _____ /09/ 2024.

Score: ____ / 20 (50 divided by 2.5)

A. Adaptations

Please use words from the word box in the spaces below. (15 marks)

aerodynamic	Prey	ice	blow hole	evolution	camouflage	domesticating
thick	extinction	gills	streamlined	Global Warming	skin	change
oxygen						

1. The word 'adapt' can best be defined as _____ to better survive in an environment.
2. Sharks have adapted to **move more efficiently** in the sea. Their shapes are _____.
3. A **synonym** for the word 'streamlined' might be the word '_____.'
4. Polar bears **cannot adapt rapidly enough** to the changes in their environment. This has resulted in their near _____.
5. An adaptation that many animals use to **hide** in their environment is called _____.
6. Polar bears are an endangered species because they have no _____ to **hunt on**.
7. The phenomenon of _____ means that many species will **not have time to adapt**.
8. Polar bears have **adapted to cold weather** by developing a _____ white fur.
9. Human beings have adapted by **farming** and _____ **animals** for food.
10. Predators use camouflage to hunt prey. _____ use camouflage to **hide from predators**.
11. **The scientific idea** of 'adaptation' is closely linked to the **scientific theory** of '_____.'
12. Frogs have developed an adaptation. They can **breathe** through their _____.
13. Fish have developed the adaptation of **breathing in water** with the use of _____.
14. **Killer whales** and **dolphins** have developed a breathing hole called a _____.
15. Some aquatic animals live **near the surface of water** to better acquire _____.

B. Separation Techniques – True or False

Please write the letter "T" for True, or the letter "F" for False. (10 marks)

- a. Separation means removing 1 substance from its connection with another. _____
- b. *Sublimation* occurs when a solid turns directly into a gas. _____
- c. Adding hot water to dry ice is not a good way to illustrate sublimation. _____
- d. A gold prospector 'panning' for gold nuggets would be a good example of sifting. _____
- e. *Decanting* may be described as *pouring off a liquid* until a solid is left behind. _____
- f. Preparing coffee from coffee beans would be a good example of *sublimation*. _____
- g. The bits of coffee left in a filter after filtering can be called 'residue' or 'particles.' _____
- h. It is absolutely *impossible* to separate the salt from seawater. _____
- i. It might be possible to separate an *iron object* from sand using a magnet. _____
- j. Filters are often 'cone-shaped' or 'funnel-shaped' objects. _____

C. Electric Circuits - Choose The Correct Word

(15 marks)

Choose 1 of the 3 words provided and enter it on the space provided.

1. Many people believe the invention of the _____ wasn't only by Thomas Edison.
a) decanter b) lightbulb c) time machine
2. A _____ is a material that can conduct (carry) electric current from 1 place to another.
a) wire b) battery c) switch
3. A _____ is an electric device that can 'open' or 'close' an electric circuit.
a) plug b) switch c) wire
4. In many electric circuits the source of power is a _____.
a) ranger b) combustible engine c) battery

5. Many electric circuits use a _____ to control the amount of electricity in the circuit .
- a) resistor b) dead bolt c) battery charger
6. In a 'closed' electric circuit – the lightbulb would be _____.
- a) off b) on c) flickering
7. In an 'open' electric circuit – the lightbulb would be _____.
- a) off b) on c) flickering
8. Batteries have both _____ and negative terminals.
- a) neutral b) neutron c) positive
9. The amount of electric current that is flowing through a circuit can be called the ____.
- a) voltage b) control factor c) resistor
10. When several batteries are in a circuit, positive terminals must be connected to the other _____ terminals.
- a) positive b) negative c) neutral
11. A _____ circuit has 2 or more paths for electric current to flow through.
- a) series b) parallel c) switch
12. In a _____ circuit all components are connected end to end to form 1 path for flow.
- a) parallel b) series c) switch
13. This energy source does not need a turbine to produce electricity - _____.
- a) wind b) hydroelectric c) solar panels

14. In a circuit with many 'lightbulbs' and 1 battery - will the 'brightness' of each bulb be affected by adding additional lightbulbs?

a) yes

b) no

c) we can't say

15. What 'letter' of the alphabet is used to illustrate a lightbulb on a circuit drawing?

a) T

b) X

c) Q

D. Adaptations – Unit 5

Choose 1 of the 2 words provided and enter it on the line. (10 marks)

1. A gas that contributes to Global Warming is _____ (methane, water vapor).
2. Human beings need to find a way to adapt to _____ (Global Warming, homework).
3. The more _____ (fossil fuels, sand) we use, the less there will be for the future.
4. As the population of man increases, so will his need for _____ (water, fossil fuels).
5. Some flowers have adapted colorful _____ (stalks, petals) to attract pollinators.
6. Some camels have adapted a coat of _____ (fur, feathers) to survive cold climates.
7. Males of many species have adapted _____ (colorful, grey) bodies to attract mates.
8. The 'leaf insect' and the 'stick insect' use _____ (camouflage, odor) to adapt.
9. Some male lizards utilize _____ (fighting, display) to attract female lizards.
10. Mosquito larvae have adapted to finding oxygen in _____ (water, air bubbles).

Final Score ____ /20 (50 divided by 2.5)

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