



Ek Burapa School  
G5 Science Examination, Sept. 2024

Name: \_\_\_\_\_

Grade: 5 / \_\_\_\_

No: \_\_\_\_

Subject: Science "Circulatory System, Unit 4" & "Cells, Unit 5"

Date: \_\_\_\_\_ /09/ 2024.

Score: \_\_\_\_ / 20 (40 divided by 2)

A. The Circulatory System

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

|             |    |                |                 |             |          |            |       |        |
|-------------|----|----------------|-----------------|-------------|----------|------------|-------|--------|
| active      | 72 | Blood          | CO <sub>2</sub> | air         | oxygen   | pulse      | Veins | heart  |
| contracting |    | blood pressure |                 | Capillaries | exercise | distribute |       | valves |

1. The word 'circulate' means to spread around or \_\_\_\_\_.
2. \_\_\_\_\_ is 'circulated' or 'distributed' throughout the human body.
3. 5 parts of the 'Circulatory System' are: *blood, veins, arteries, capillaries* and the \_\_\_\_\_.
4. The parts of the heart that allow blood to constantly **enter** and **exit** are called \_\_\_\_\_.
5. Arteries bring blood containing \_\_\_\_\_ to all areas of the human body.
6. \_\_\_\_\_ are tubes that carry **deoxygenated blood** back to the heart.
7. \_\_\_\_\_ are **small**, wispy, thin tubes that bring blood to the **surface** of the skin.
8. Placing 2 fingers gently on your **wrist** or **throat** will allow you to measure your \_\_\_\_\_.
9. Your 'resting heart rate' describes when you are **not** \_\_\_\_\_.
10. One of the first things a nurse does at a hospital is to measure our \_\_\_\_\_.
11. Oxygen is supplied to our blood from the **food we eat** and the \_\_\_\_\_ **we breathe**.
12. Some scientists say the average resting pulse of a young person is about \_\_\_\_\_ bpm.
13. Stress, excitement, \_\_\_\_\_ and physical work will make our **pulse rate higher**.
14. The heart is a cardiac muscle. It is always \_\_\_\_\_ and **expanding**.
15. Blood returning to the heart carries \_\_\_\_\_ and **waste materials** away from the body.

## B. Circulatory System & Cells – True or False

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

- a. We utilized very tall students to draw our maps of the Circulatory System. \_\_\_\_\_
- b. The color 'red' is used to show the arteries in a diagram of The Circulatory System. \_\_\_\_\_
- c. The color 'blue' is used to show the veins in a diagram of the Circulatory System. \_\_\_\_\_
- d. The human heart is often compared to a mechanical 'pump.' \_\_\_\_\_
- e. Your pulse rate is measured in 'the number of beats per hour.' \_\_\_\_\_
- f. Arteries can get filled with 'fatty' substances because of poor eating habits. \_\_\_\_\_
- g. Cells are often described as '*the building blocks*' of life. \_\_\_\_\_
- h. The invention of the microscope was not important in cell research. \_\_\_\_\_
- i. We probably would not have defeated Covid19 without microscopes. \_\_\_\_\_
- j. Cells are placed on glass slides when they are observed under a microscope. \_\_\_\_\_

## C. Cells - Choose The Correct Word

(15 marks)

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

1. The microscope was invented in this country - \_\_\_\_\_.  
a) Canada                      b) The Netherlands                      c) Thailand
2. The microscope is a scientific tool that makes small objects look \_\_\_\_\_.  
a) smaller                      b) larger                      c) the same size
3. The microscope was invented approximately \_\_\_\_\_ years ago.  
a) 24                      b) 424                      c) 1024
4. Plant cells are usually shaped like a \_\_\_\_\_. Animal cells have varied shapes.  
a) star                      b) oval                      c) rectangle

5. Both animal cells and plant cells share the same internal fluid, it is called \_\_\_\_\_.  
a) water                      b) cytoplasm                      c) gastric juices
6. The cell wall of a plant cell is \_\_\_\_\_ than the cell wall of an animal cell.  
a) thinner                      b) the same                      c) thicker
7. Most living things are made up of millions of cells. They are called \_\_\_\_\_.  
a) multicellular                      b) unicellular                      c) clones
8. Organisms like amoeba and bacteria are made of only 1 cell. They are called \_\_\_\_\_.  
a) multicellular                      b) unicellular                      c) units
9. There are many kinds of cells. Each cell has its own \_\_\_\_\_.  
a) shape                      b) life span                      c) function
10. Plant cells have \_\_\_\_\_ in each cell that makes the plant 'green.'  
a) chloroform                      b) chloroplasts                      c) green food coloring
11. Plant cells and animal cells have a 'control centre' of the cell that is called \_\_\_\_\_.  
a) the brain                      b) the nucleus                      c) the main frame
12. All cells need \_\_\_\_\_ to reproduce and survive.  
a) rest                      b) energy                      c) fatty substances
13. Human cells grow much better if we have a healthy diet and plenty of \_\_\_\_\_.  
a) sleep                      b) junk food                      c) friends and money

14. The outer edge of a human or animal cell is very thin and it is termed a \_\_\_\_\_.

a) wall

b) membrane

c) fur

15. The prefix 'uni' as in unicellular, unicorn and unicycle means \_\_\_\_\_.

a) one

b) two

c) many

#### D. Diseases of The Circulatory System

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

1. Another name for 'hypertension' is \_\_\_\_\_ (high blood pressure, stress).
2. Leukaemia is a disease that is often called \_\_\_\_\_ (cancer of the blood, migraine).
3. The \_\_\_\_\_ (white, red) blood cells of a person with Leukaemia will produce too quickly.
4. One of the best ways to care for our Circulation is to avoid cigarettes, drugs, and \_\_\_\_\_ (exercise, alcohol).
5. Arteriosclerosis is when the inner walls of \_\_\_\_\_ (capillaries, arteries) become filled with fatty substances and blood cannot pass through.
6. A clot describes a part of an artery where \_\_\_\_\_ (food, blood) cannot pass through.
7. Anaemia is a disease of the blood where the amount of red blood cells being produced is \_\_\_\_\_ (too low, too high).
8. Patients with anaemia should eat food like spinach that have a lot of \_\_\_\_\_ (iron, fat).
9. Hospitals around the world have departments called \_\_\_\_\_ (Cardiology, Radiology) that treat and care for matters related to the heart.
10. To avoid illness, we have learned that sleep, exercise and a good \_\_\_\_\_ (diet, hospital) may be the best medicines of all.

Final Score \_\_\_\_ /20 (50 divided by 2.5)

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