



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 ₂	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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