



Science

Year 6

MARCH EXAMINATION 2021

1 hr. 30 min

Additional Materials:

- Soft clean eraser
- Soft pencil (type B or HB recommended)

Read these instructions first

This paper contains 18 questions. Answer all questions in the spaces provided.

Do **not** use staples, paper clips, and glue or correction fluid.

Any rough working should be done in the rough work booklet provided.

NAME:

DATE:

SCORE:

TOTAL MARKS:

[Turn over]

1. A human body has many parts called organs. Some are internal organs while others are external. Please name three internal organs and three external organs. (6)

Internal Organs

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.....

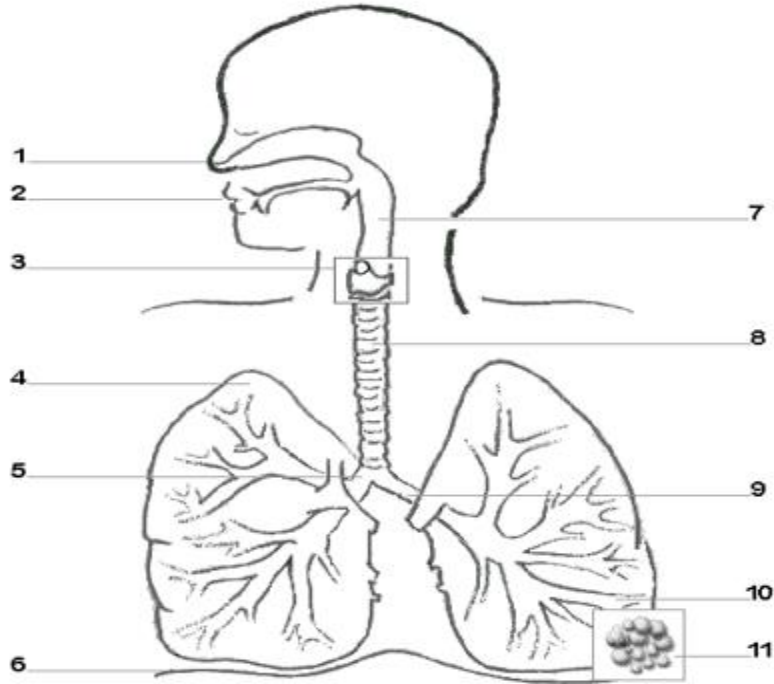
External organs

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.....
.....

2. Body organs work together to form organ systems such as the excretory system. Give any other three organ systems. (3)

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.....

3. Below is a diagram of the breathing system.



a) Give the names of the parts labelled 5,6,7 and 11 (4)

5 _____

6 _____

7 _____

11 _____

b) What happens in the organ labelled 1 and 4? (2)

1 _____

11 _____

c) Which gases are exchanged in the parts labelled 11?

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4.

a) The circulatory system is responsible for the movement of blood from the heart to the rest of the body. Name the major components of the circulatory system. (3)

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b) The human heart is made up of four chambers, name them. (4)

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.....

c) There are three main blood vessels; _____, _____ and capillaries. The main artery is called _____ while the main vein is called _____. A special artery called _____ transports deoxygenated blood from the heart to the lungs while a special vein called _____ transports oxygenated blood from the lungs back to the heart. (6)

Choose your answers from the given below question 3 (a) and c

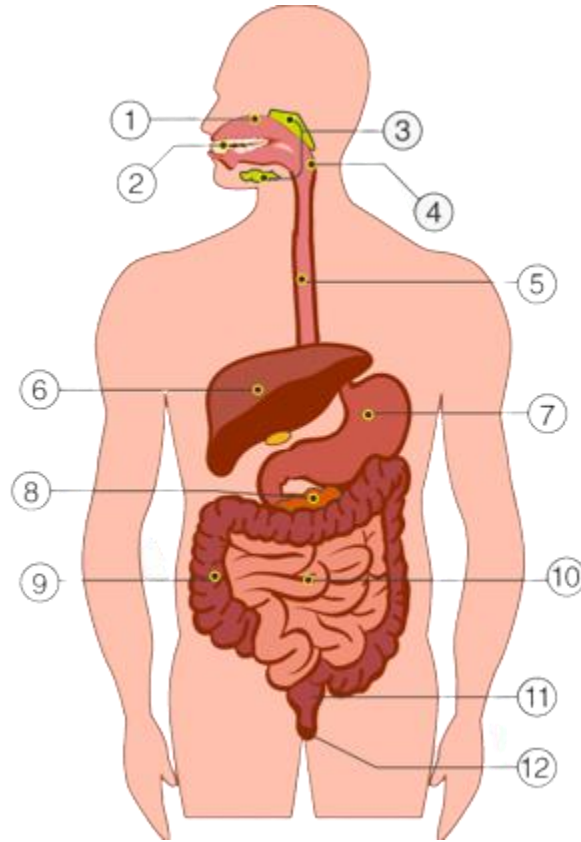
(Pulmonary artery, vena cava, veins, aorta, heart, pulmonary vein, arteries, blood vessels)

d) Name the four components of blood (4)

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.....

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.....

5. The diagram below represents the digestive system



a) Name the parts labelled 5,9,10 and 12 (4)

5 _____

9 _____

10 _____

12 _____

b) How does the mouth aid in digestion of food? (2)

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.....

- c) How does the digested food in the small intestines get transported around in the body? (1 point)

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6. For this question, choose your answers from the list given. (6 points)

(Wastes dialysis computer mouse remove kidney transplant bean)

In a mature human being, the kidney is of the size of a _____ and has the shape of a _____. The main function of the kidney is to _____ wastes and _____ water from the blood. If both the kidneys fail, a _____ can be conducted if someone donates a kidney to the patient. If no donor is available, a _____ machine can be used instead.

7. All living things need food to obtain energy (1)

- a) True
- b) False

8. The natural home of living things is called (1)

- a) Ecosystem
- b) Habitat
- c) Environment
- d) Home

9. In a food chain, plants make their own _____ so they are called _____. Animals and humans cannot make their own food so they eat what the plants have made hence they are called _____. Animals that feed on

other animals are called _____ while the animals that are eaten by others are called _____. (5)

Choose your answers from the list below

(Producers food prey consumers predators)

10. Create a food chain using the following list of living things. (3)

Twigs

Goat

Lion

Vulture

11. What type of living thing is the source of food for all other living things whether directly or indirectly?(1)

- a) Animals
- b) Insects
- c) Plants
- d) Fungi

12. What is the name given to flow of energy from plants to animals and back to plants? (1)

- a) producers
- b) Food chain
- c) Food cycle

d) Predators

13. What organism below eats producers? (1)

- a) Lion
- b) Predator
- c) Giraffe
- d) Cat

14. a) There are two major changes that happen to substance. They are _____ and _____ . (2)

b) Emmanuel put some water in the freezer and after some time, the water had turned into ice. Later, it turned back into water after exposure to heat. Which change was this?

Reversible or irreversible? (1)

c. Give two substances that undergo reversible change and two that undergo irreversible change (4)

15. A mixture is a combination of substances physically combined (1)

- a) True
- b) False

16. Give any three examples of mixtures that you know (3)

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17. Give one example of mixtures in the following categories

a) Insoluble solid and liquid mixtures (1)

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b) Soluble solid and liquid mixtures (1)

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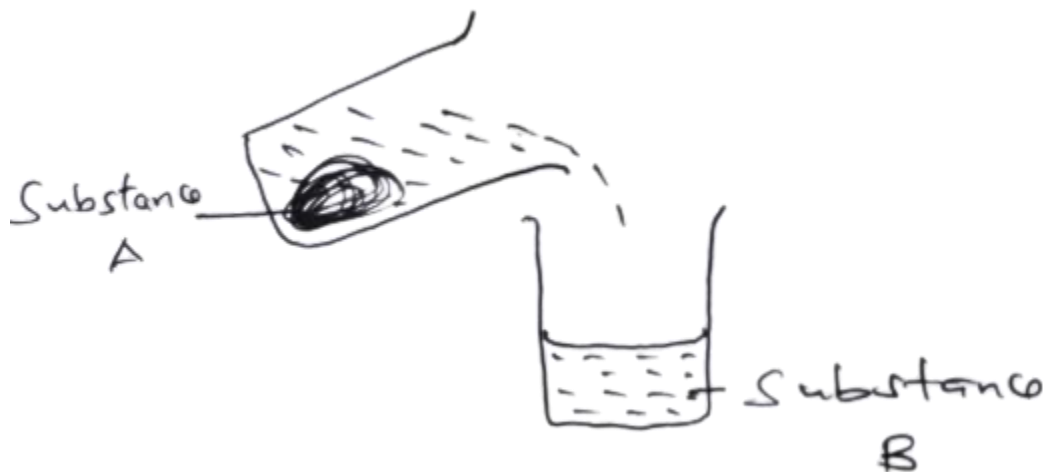
c) Miscible liquid mixtures (1)

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d) Immiscible liquid mixtures (1)

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18. The diagram below illustrates a method of separating mixtures



a) Name the method of separating mixtures above (1)

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b) Name substances A and B (2)

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c) Give two examples of substances that can be separated using the method above (2)

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d) Apart from the method above, name any other two methods of separating mixtures (2)

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