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PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF EDUCATION

VHEMBE WEST DISTRICT

GRADE 09

NATURAL SCIENCES

TERM 1

12 MARCH 2024

MARKS: 100

DURATION : 2 Hours

This **Question Paper** consists of **Eight (08)** pages including the cover page.

INSTRUCTIONS:

1. Answer all questions.
2. Write neatly and clearly.
3. Do NOT Answer on the question paper
4. Use appropriate drawing instruments where necessary.

SECTION A**QUESTION 1**

Four options are provided as possible answers to the following questions. Each question has only ONE correct answer. Write only the letter next to the question number in the ANSWER BOOK e.g. 1.1.6 C.

1.1 A plant cell have a fixed shape because they have.....

- A. Cellulose cell wall.
- B. A cell membrane
- C. Large vacuole.
- D. Many chloroplasts

(2)

1.2. A disorder that causes the airways of the lung to swell and narrow.

- A. Lung cancer.
- B. Asbestosis.
- C. Asthma.
- D. Bronchitis.

(2)

1.3. The ability to move from one place to another.

- A. Locomotion.
- B. Cartilage.
- C. Relaxation.
- D. Contraction.

(1)

1.4. The cell organelle where food is manufactured is the.....

- A. nucleus.
- B. mitochondrion.
- C. chloroplast.
- D. cell membrane.

(2)

1.5. The jelly-like substance in cells where reactions take place.

- A. Ribosome
- B. Cytoplasm
- C. Cell membrane
- D. Vacuole

(2)

1.6. Salts that are dissolved in your blood and other bodily fluids that carry an electric charge.

- A. Filtration.
- B. Absorption.
- C. Diffusion.
- D. Electrolyte.

(2)

1.7. A condition where a person has more than five bowel movements or watery stools per day.

- A. Constipation.
- B. Ulcers.
- C. Diarrhoea.
- D. Malnutrition.

(2)

1.8. Having an excessive amount of body parts.

- A. Diabetes.
- B. Obesity.
- C. Balanced diet.
- D. unbalanced diet.

(2)

1.9. How long does the menstrual cycle lasts?

- A. For about 28 days.
- B. For about 14 days.
- C. For about 7 days.
- D. Four about 21 days

(2)

1.10. Liquid secreted into the mouth by salivary glands.

- A. Digestive juice.
- B. Hydrochloric acid.
- C. Saliva.
- D. Water.

(2)

(20)

QUESTION 2

Give ONE word for each of the following descriptions. Write the correct word next to the question number (2.2.1 – 2.2.5) in your answer sheet provided.

- 2.1 A green pigment found in chloroplasts that gives plants their green colour.
 2.2. Tough, rubbery tissue that forms a cushion between bones.
 2.3. Organisms consisting of many cells.
 2.4. Fusion of the egg and the sperm.
 2.5. Sores in the lining of the mouth and intestines.

(10)**Question 3**

Choose a concept in **COLUMN B** that matches a statement in **COLUMN A**. Write only the correct letter (A – F) next to the question number (3.1 – 3.5) . E.G 3.1. F

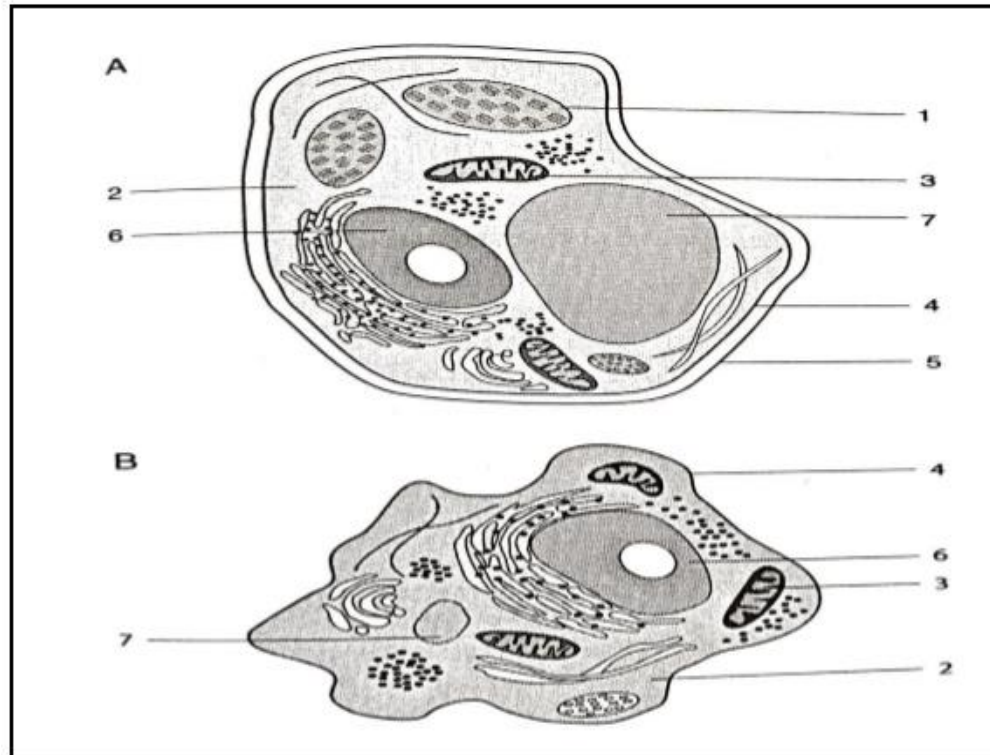
COLUMN A	COLUMN B
3.1 Monthly bleeding when the lining of the uterus is shed.	A. Digestion
3.2 The structure or device which can be used to prevent unwanted pregnancy and sexually transmitted diseases like HIV/AIDS.	B. Pulmonary vein
3.3 The breaking down of food into dissolved nutrients that can be absorbed into the blood stream.	C. Breathing
3.4 The flow of air in and out of the lungs.	D. Menstruation
3.5 Transport oxygenated blood from the lungs to the heart.	E. Condom
	F. Tissue

(10)**[30]****TOTAL MARKS SECTION A: 40**

SECTION B

QUESTION 4

4.1 Study the following structures and answer questions that follows.

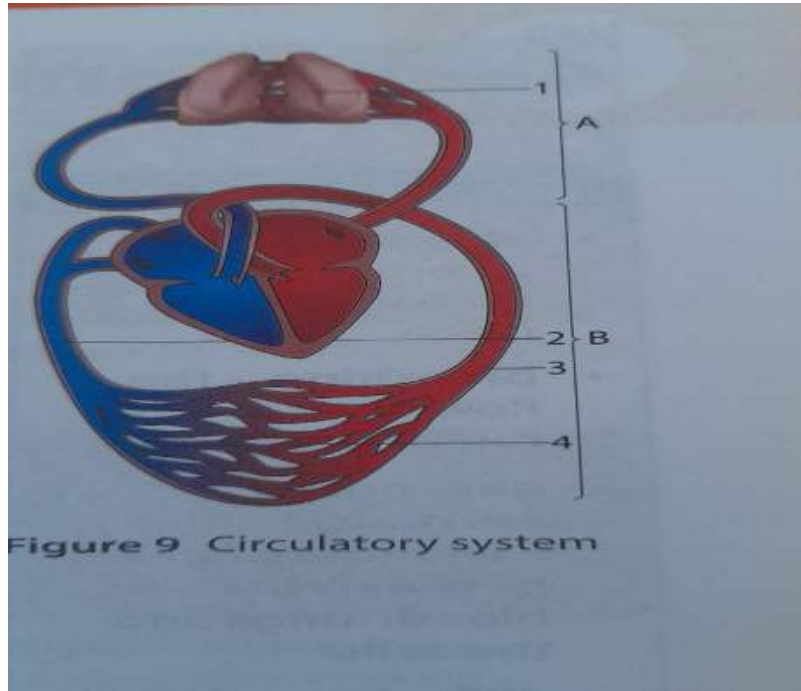


- 4.1.1 Identify structure A and B. (2)
 4.1.2 Provide labels for the parts numbered 3 and 6. (2)
 4.1.3. Name and explain the function of part numbered 1 in structure A (2)
 4.1.4. Why are plant cells able to make their own food? (2)
 4.1.5. Tabulate two ways in which structure A differs from structure B. (5)

(13)

QUESTION 5

5.1. Study the diagram below of circulatory system and answer questions that follows.



5.1.1.

a) Name the organ that pumps blood around the body. (1)

b) Name the three types of blood vessels. (3)

5.1.2. What is the main function of the circulatory system? (2)

5.1.3. Supply labels for parts numbered:

a) 1 b) 2 c) 4 (3)

5.1.4. Describe circulation indicated on the diagram by:

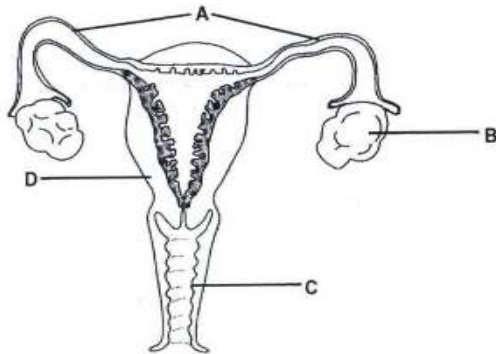
a) A b) B (2)

5.1.5. Explain why the walls of capillaries are made up of only a single layer of cells. (2)

(13)

QUESTION 6

6.1 Study the diagram below and answer the questions that follows



6.1.1 Provide a suitable heading for the above diagram. (1)

6.1.2 Provide labels for par A, C and D. (3)

6.1.3 State ONE function of part D. (2)

6.1.4. Which part secretes the female hormones? Write down the letter. (1)

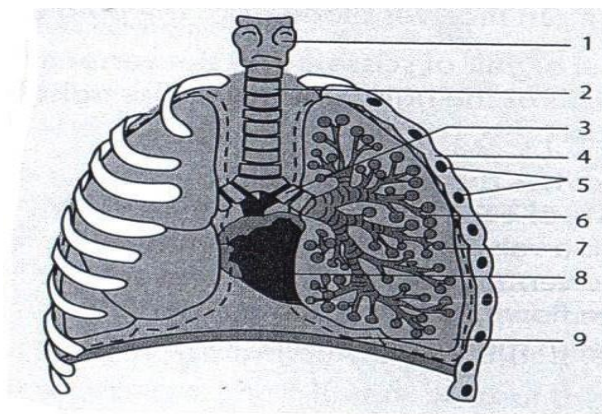
6.1.5. Explain why pregnant mothers should not drink or take drugs. (2)

(9)

QUESTION 7

7.1 Write down TWO common causes of respiratory health issues. (2)

7.2 Study the diagram below which represents the structure of the respiratory system and answer the questions that follow.

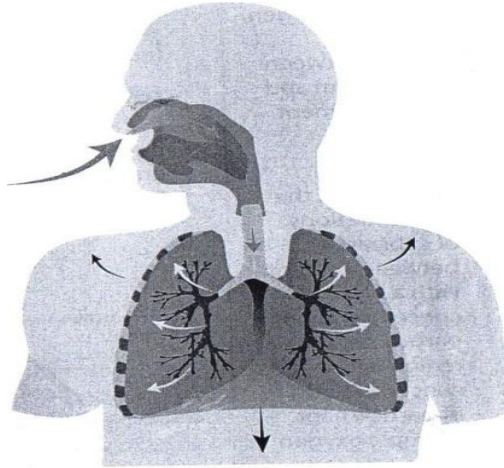


7.2.1 Provide labels of the parts numbered 2 and 9. (2)

7.2.2 Name the process that takes place in the lungs if the part numbered 9 contracts. (1)

7.2.3 Write down TWO common health issues that are related to circulatory system. (2)

7.3 Study the diagram below and answer the questions that follow.



7.3.1. Give a suitable heading for a diagram above

(1)

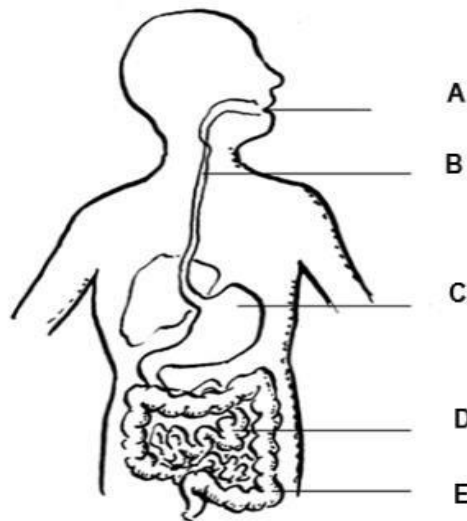
7.3.2. What process takes place in these structures?

(1)

(9)

QUESTION 8

The diagram below shows parts of the alimentary canal. Study the diagram and answer the questions that follow.



8.1.1 Provide the correct labels for the parts numbered C and E.

(2)

8.1.2 What is meant by egestion?

(2)

8.1.3 State the process that takes place in parts numbered A, C and E.

(3)

8.1.4 Explain what happens to the nutrients, from the moment they enter Parts C, D and E until they reach the body cells.

(2)

8.1.5 Differentiate between chemical and mechanical digestion

(4)

- 8.1.6 Supply TWO reasons and explain why roughage (fibre) is important in the digestion of food. (2)
- 8.1.7 Explain what happens to the glucose that is stored in the muscle cells. (1)
- (16)

TOTAL MARKS SECTION B: 60

TOTAL MARKS: 100