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GENERAL EDUCATION AND TRAINING

GRADE 9

Natural Sciences

March Test

MARKS: 70

TIME: 1 ½ hours



INSTRUCTIONS:

1. Use the spaces provided in the question paper to answer all the questions.
2. Write neatly and legibly.

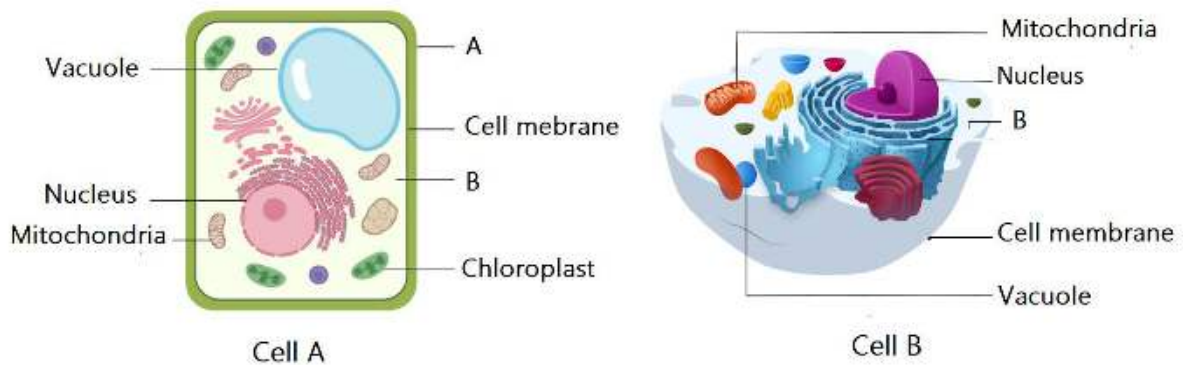
QUESTION 1

Four options are provided in each question. Circle the correct answer.

- 1.1 The function of a cell membrane is to _____
A. give shape to the cell
B. house the cell organelles
C. control what enters or leave the cell
D. provide nutrients (1)
- 1.2 The colour for oxygenated blood is bright red because of _____
A. deoxygenated haemoglobin
B. low content in oxygen
C. high content in carbon dioxide
D. oxygenated haemoglobin (1)
- 1.3 The period between conception and birth is known as _____
A. pregnancy
B. gestation
C. birth
D. menstruation (1)
- 1.4 Only a plant cell has a _____
A. a nucleus
B. a cell membrane
C. cytoplasm
D. cell wall (1)
- 1.5 A fetus is _____
A. a recognisable mammal after 8 weeks
B. an unrecognisable mammal before 8 weeks
C. a recognisable mammal after birth
D. an unrecognisable mammal after birth (1)
- (5)**

QUESTION 2: CELL

Study the diagram of a cell below and answer the questions that follow.



2.1 Identify the two shown diagrams. (2)

2.2 Label the parts **A** and B (4)

2.3 Which organelle makes it possible for photosynthesis to take place? (1)

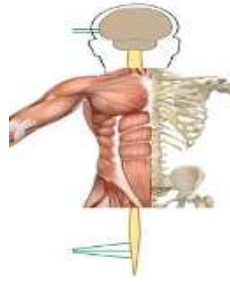
2.4 Mention **ONE** function of the mitochondria. (2)

2.5 Discuss a vacuole in relation to a plant and animal cell. (2)

2.6 In which organelle do we find the genetic material of an organism? (1)

(12)

QUESTION 3: OVERVIEW OF SYSTEMS (NERVOUS, MUSCULAR, EXCRETORY)



3.1 What are the three parts of the nervous system? (3)

3.2 What is the function of the brain in the nervous system? (2)

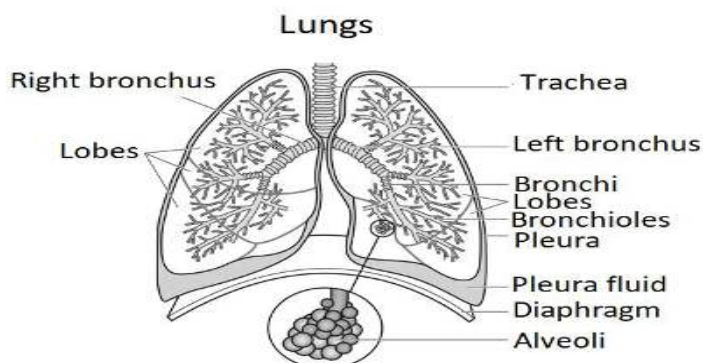
3.3 Mention ONE function of the skeleton. (1)

3.4 What makes the excretory system important? (2)

(8)

QUESTION 4: RESPIRATORY SYSTEM

Study the diagram of the respiratory system and answer the questions that follow.



4.1 In which part of the lung does gaseous exchange take place? (1)

4.2 What is the function of the mucus in the nasal cavity? (2)

4.3 Discuss why the trachea has rings of cartilage? (2)

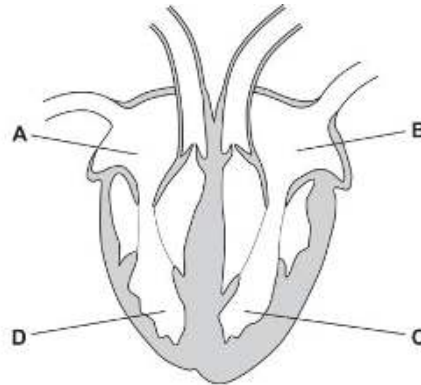
4.4 Discuss the movement of the diaphragm during breathing. (2)

4.5 What is asthma attack? (1)

(8)

QUESTION 5: CIRCULATORY SYSTEM

Answer the following questions.



5.1 What are the **TWO** organs that are part of the circulatory system? (2)

5.2 Discuss what affects blood pressure. (2)

5.3 What is the function of the aorta? (2)

5.5 What are the chambers labelled A and D? (2)

(8)

QUESTION 6: DIGESTIVE SYSTEM

Answer the following questions:

6.1 Mention **THREE** activities taking place in the mouth during digestion. (3)

6.2 Discuss the difference between chemical and mechanical digestions. (4)

6.3 Discuss the importance of digestion. (4)

6.4 Identify **TWO** food groups that are needed for a balanced diet. (2)

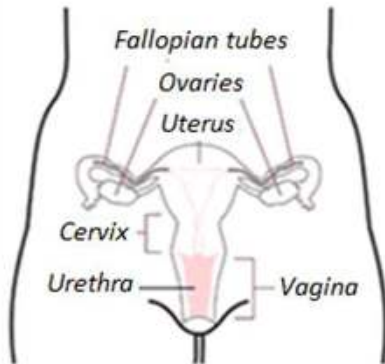
6.5 Explain how food moves from the mouth to the stomach. (2)

(15)

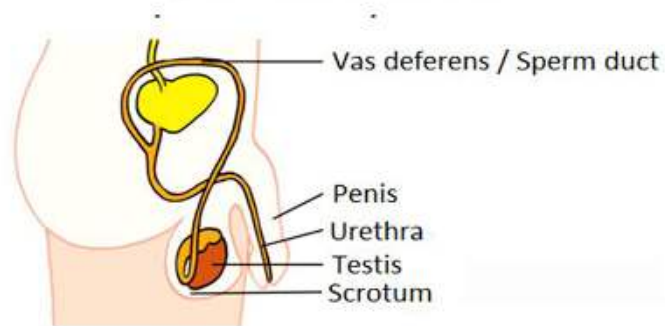
QUESTION 7: REPRODUCTION

Use the diagram to answer some of the following questions.

Female Reproductive System



Male Reproductive System



7.1 Mention **ONE** physical change in males during puberty. (2)

7.2 What are the two functions of the urethra in the male reproductive system? (4)

7.3 Discuss the possible reason why the urethra is not part of the female reproductive system? (2)

7.4 Mention **ONE** possible way to prevent pregnancy. (1)

7.5 Discuss why the testes are housed outside the body. (2)

7.6 What is the main sex hormone in males? (1)

7.7 Discuss the possible reason why Cervix cancer only occurs in females. (2)

(14)