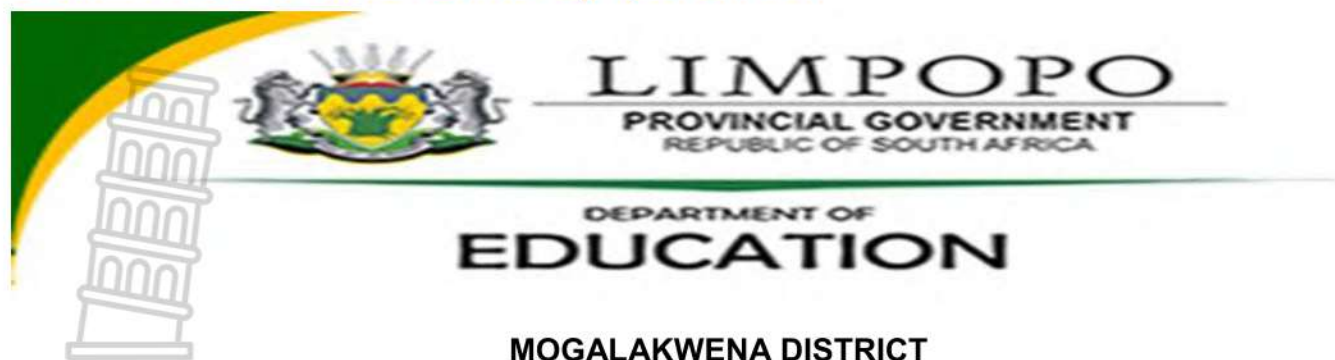




**SENIOR PHASE**

**GRADE 9**

**NATURAL SCIENCES**

**TERM 1**

**TEST**

**2024** Stanmorephysics.com

**MARKS: 60**

**DURATION: 1½ HOURS**

**INSTRUCTIONS**

1. This question paper consists of 3 Sections (A, B and C) and 6 questions
2. Answer all questions
3. Number the answers correctly according to the numbering system used in the question paper.
4. Write neatly and legibly.

**This Question Paper consists of EIGHT (7) pages including the cover page.**

**SECTION A**

**QUESTION 1 (MULTIPLE CHOICE)**

1. Various possible options are provided as answers to the following questions. Choose the correct answer and write only the letter (A – D) next to the number.

1.1. Which of the following statements about the living cells is false?

- A. Most are microscopic
- B. They are found in all animals but not in all plants
- C. They are the smallest basic units of life
- D. They carry out all of the functions that we normally define as life.

1.2. Part of the cell that carries the genetic and hereditary information of each cell.

- A. Cytoplasm
- B. Cell membrane
- C. Mitochondrion
- D. Nucleus



1.3. Human body system that is made up of kidneys and bladder

- A. Endocrine
- B. Circulatory
- C. Nervous
- D. Excretory

1.4. A term used to describe organs that work together

- A. Connective system
- B. Tissue system
- C. Organ system
- D. Body system

1.5. Happen to both girls and boys during puberty.

- A. Wet dreams
- B. Development of a curvier body shape
- C. Facial hair grows
- D. Underarm hair grows

1.6. The human organ where a fetus is implanted and grows.

- A. Stomach
- B. Fallopian tube
- C. Uterus
- D. Fertilization tube

1.7. The full term of the pregnancy is

- A. 23 weeks
- B. 28 weeks
- C. 37 weeks
- D. 40 weeks

1.8. The process through which carbon dioxide (air) is forced out of the human lungs.

- A. Breathing
- B. Gaseous exchange
- C. Inhalation
- D. Exhalation

1.9. The nutrients that is important for cell, body and muscle growth and repair

- A. Vitamins
- B. Protein
- C. Carbohydrates
- D. Fats

1.10. The area where carbohydrates are first digested.

- A. Mouth
- B. Stomach
- C. Small intestine
- D. Large intestine

[10]

**QUESTION 2**

**(TERMINOLOGY)**

- 2.1. A group of organs that function together.
- 2.2. The hormone secreted by the testes.
- 2.3. The basic unit of life.
- 2.4. The muscular organ that pumps blood to all parts of the body.
- 2.5. This disease leads to rejection of all food due to an obsession with slimming.

**[5]**

**QUESTION 3**

**(MATCHING)**

Choose a word from COLUMN B that matches a description in COLUMN A. Write only the letter (A – G) next to the question number (3.1 – 3.5).

| <b>COLUMN A</b>                                                                  | <b>COLUMN B</b>            |
|----------------------------------------------------------------------------------|----------------------------|
| 3.1. The intake of food into the mouth                                           | <b>A.</b> Digestive system |
| 3.2. A woman's monthly cycle or periods                                          | <b>B.</b> Inhalation       |
| 3.3. A process by which air is taken into the body through the mouth or nostrils | <b>C.</b> Excretory system |
| 3.4. A disease caused by smoking                                                 | <b>D.</b> Ingestion        |
| 3.5. The body system responsible for the removal of waste from the body          | <b>E.</b> Menstruation     |
|                                                                                  | <b>F.</b> Nervous system   |
|                                                                                  | <b>G.</b> Tuberculosis     |

**[5]**

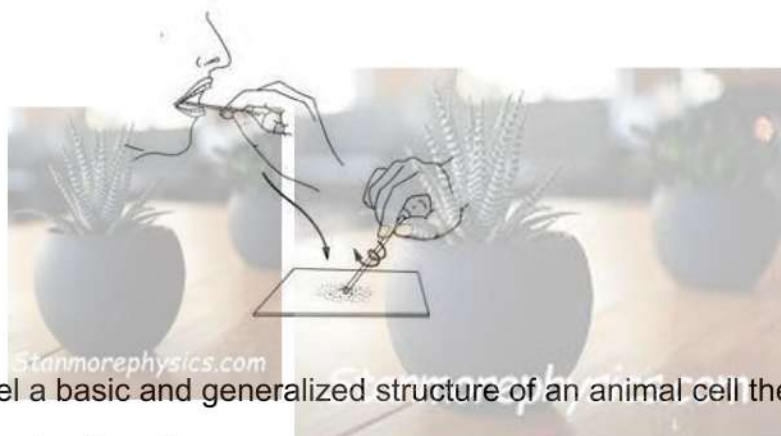
**SECTION A TOTAL = [20]**

SECTION B

QUESTION 4

(CELLS AS A BASIC UNIT OF LIFE)

During a Natural science lesson, learners observed a teacher swapping the inside of his mouth to get his cheek cells. He then prepared a mount in order to observe the swapped cheek cells under the microscope.



4.1. Draw and label a basic and generalized structure of an animal cell the learners are likely to observe under the microscope. (4)

4.2. Tabulate two differences between the plant and animal cell. 4)

4.3. Explain why animals depend on plants for food (2)

**[10]**

**QUESTION 5**

**(OVERVIEW OF BODY SYSTEM)**



5.1 Name the system that transmits signals between the brain and the rest of the body

(1)

5.2 Name of the system represented by the picture above

(1)

5.3 What is the function of the muscular system in the human body?

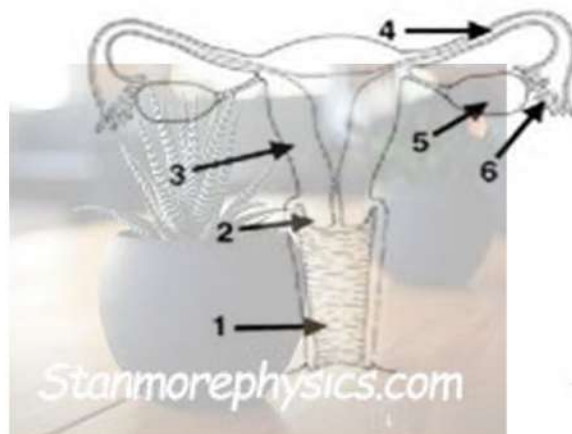
(2)

**[4]**

**QUESTION 6**

**(REPRODUCTIVE SYSTEM)**

Study the diagram below and answer the questions which follow.



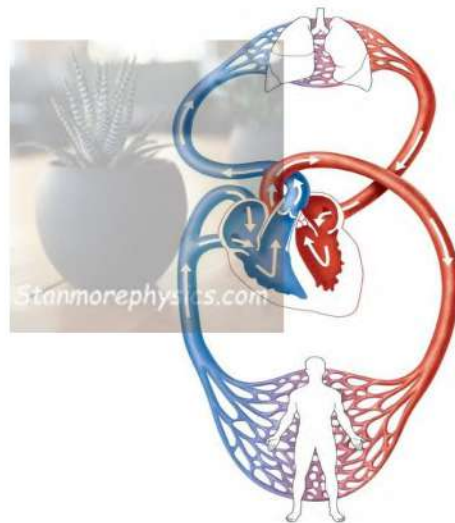
- 6.1 Give the name of the part labelled 3 and 5. (2)
- 6.2. What are the two visible changes ONLY girls experience during puberty stage (2)
- 6.3 Give one way girls can prevent pregnancy (1)
- 6.4 Explain the stages of reproduction in the order from fertilization to pregnancy (3)

[8]

### QUESTION 7

#### (CIRCULATION AND RESPIRATION)

Study the FIGURE below and answer the questions that follow.



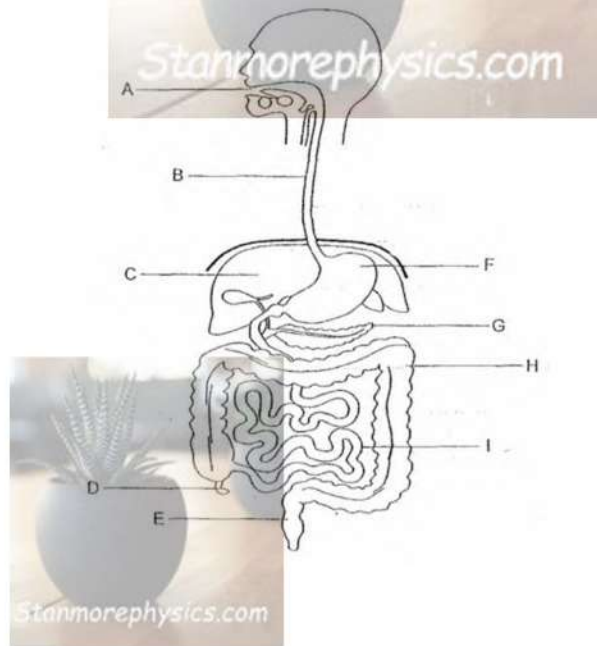
- 7.1 Which organs are responsible for respiration? (1)
- 7.2 Define gaseous exchange and write the part where it occurs (3)
- 7.3 Explain the effect addiction to smoking has not the lungs? (2)
- 7.4 Explain how oxygenated blood is circulated in the human body (3)

[9]

**QUESTION 8**

**(HEALTHY DIET AND DIGESTIVE SYSTEM)**

Study the FIGURE below and answer the questions that follow.



- 8.1. What is the name of the part labelled B and F (2)
- 8.2 Write down the type of digestion that happens in part labelled A (1)
- 8.3. Name the process that takes place in the part labelled I and its Importance in the body (3)
- 8.4. Sadike consulted with his friend because he is overweight and spends at least four days without egesting the food he ate. Suggest to him how he can reduce his weight without exercising and regularly defecate the food. (3)
- [9]**

**SECTION A TOTAL = [20]**

**SECTION B TOTAL = [40]**

**GRAND TOTAL = [60]**