



LIMPOPO
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF
EDUCATION

MOPANI WEST DISTRICT

NATURAL SCIENCES

GRADE 9

TERM 1

COMMON TEST QUESTION PAPER

Date: 11 MARCH 2024

MARKS: 70

DURATION: 90 MINUTES

This question paper consists of 7 pages including the cover page.

Instructions

- 1 Answer ALL the questions
- 2 Do ALL drawings in pencil and label them in blue or black ink.
- 3 Read each question carefully before answering it
- 4 Number the answers correctly according to the numbering system used in this question paper.
- 5 Write neatly and clearly

QUESTION 1 MULTIPLE CHOICE

1.1 Four possible answers are given for each statement. Every question has only one correct answer. Choose the answer that is correct and write the correct letter next to the question number. e.g 1.1 B

- 1.1.1 The basic unit of life is the (2)
A. Organ
B. Cell
C. Organelle
D. Tissue
- 1.1.2 Digestion begins in the (2)
A. Mouth.
B Small intestine.
C Large intestine
B. Stomach.
- 1.1.3 Which of the following is not an organ of excretion (2)
A. Heart
B. Skin
C. Lungs
D. Kidneys
- 1.1.4 The hormone or hormones responsible for secondary sexual characteristics in males and females are.... (2)
A Only oestrogen
B Testosterone and oestrogen
C Growth hormone and testosterone
D Oestrogen and growth hormone
- 1.1.5 A place where two or more bones meet is the (2)
A. Joint
B. Cartilage
C. Tendon
D. Muscle (5X2)

1.2 Give the correct biological term for each of the following statements.

- 1.2.1 The monthly breakdown and discharge of the uterus lining that result in bleeding.
 1.2.2 The tube that transports urine from the kidney to the bladder.
 1.2.3 The process when an egg cell is released.
 1.2.4 The apparatus that is used to study very small objects like cells and micro-organisms.
 1.2.5 The stage in the life cycle of a person when they become sexually matured (5X1)

1.3 Match the terms in COLUMN A with the statements in COLUMN B by writing down the question number and the letter corresponding to the correct answer next to it.

COLUMN A	COLUMN B
1.3.1 A medical condition where blood pressure is above normal limit.	A. Skeleton
1.3.2 A group of cells that have similar structures and that performs the same function	B. High blood pressure
1.3.3 Provides support and help to form the shape of the body	C. Circulatory
1.3.4 An organ about the size of your clenched fist that acts like a pump and pushes blood around the body.	D. Tissue
1.3.5 System that distributes oxygen that is carried by red blood cells to all parts of the body.	E. Heart

(5x1)

[5]
[15]

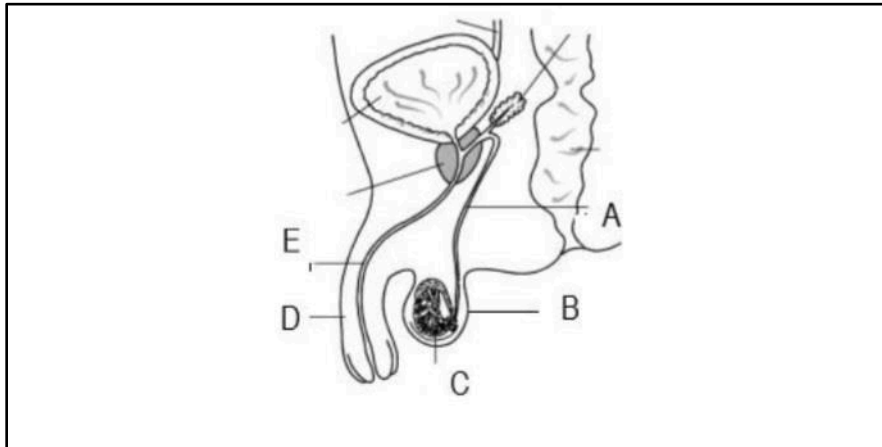
QUESTION 2

- 2.1 Draw and label the structure of an animal cell. (5)
 2.2 Tabulate TWO structural difference between plant and animal cell (5)
 2.3 Write down the name of the organelles which are responsible for the following functions:
 2.3.1 The process of cellular respiration
 2.3.2 The process of photosynthesis takes place
 2.3.3 Controls all the cell activities
 2.3.4 Allows substances to enter and leave the cell (4)

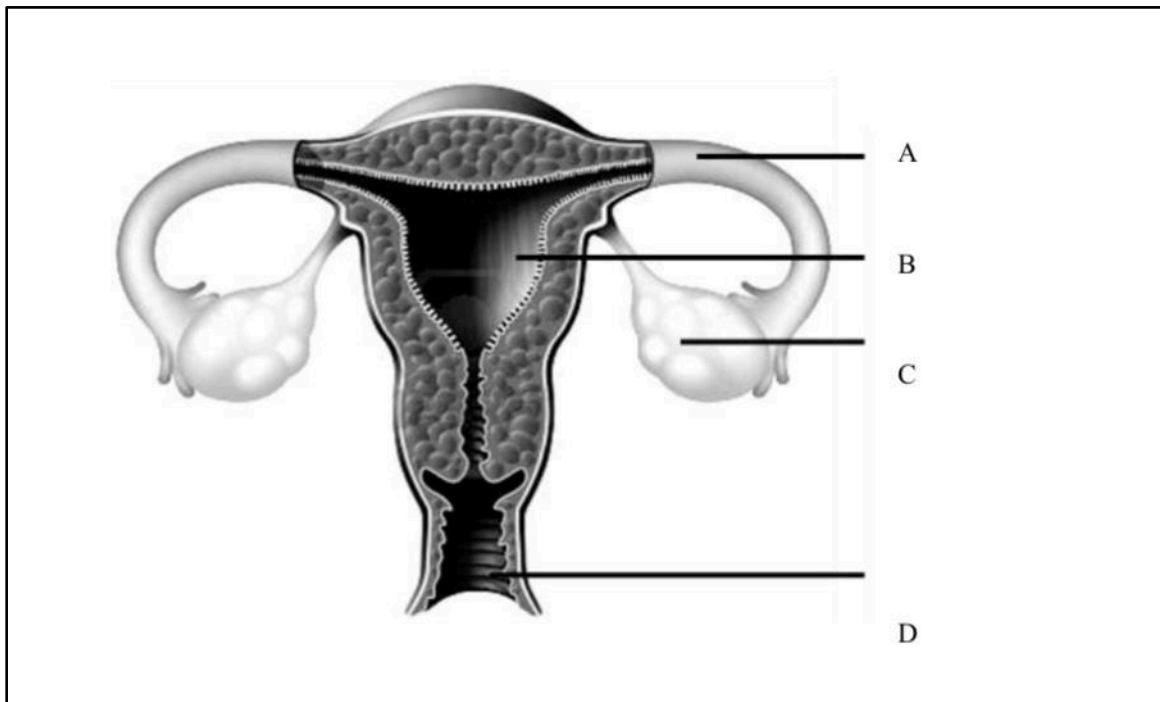
[14]

QUESTION 3 Reproductive system

Study the diagram of the male sex organ, and answer the questions that follow:



- 3.1. Provide labels for the parts numbered B and E. (2)
- 3.2 Write only the LETTER of the parts with the following functions:
- 3.2.1 Make sperm and the male sex hormone, testosterone. (1)
- 3.2.2 Carries sperm from the testis to the penis. (1)
- 3.2.3 Explain the term fertilisation. (1)
- 3.3 Give the correct labels for the parts numbered A – D (4)



3.4 Write down the part labelled by the letter where the following will take place:

3.4.1 Egg cells are produced

(1)

3.4.2 Fertilization

(1)

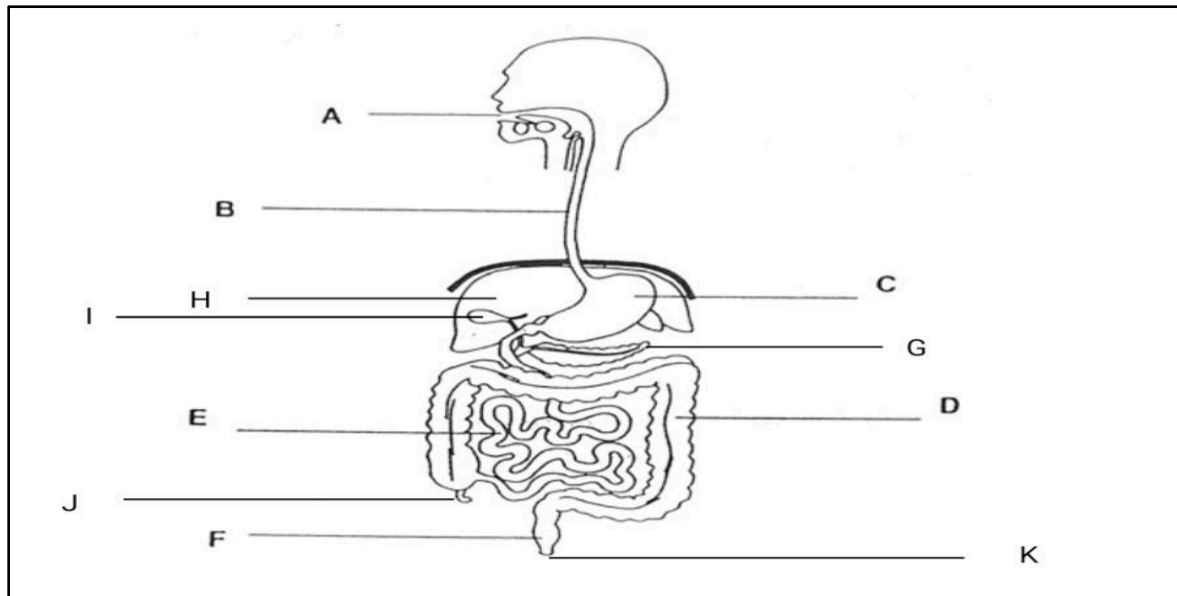
3.4.3 Development of the embryo

(1)

[12]

QUESTION 4

Study the diagram indicated below and answer the questions that follow:



4.1. Which system is illustrated by the diagram? (1)

4.2. What is the name of the part labelled H? (1)

4.3. What is the name of the part labelled K? (1)

4.4. Write down the letter of the part that churns food, and acids and digestive enzymes are added. (1)

4.5. Write down the letter of the part which has muscular walls which push food by peristalsis towards the stomach. (1)

4.6 From the list below choose THREE health issues associated with the system above (3)

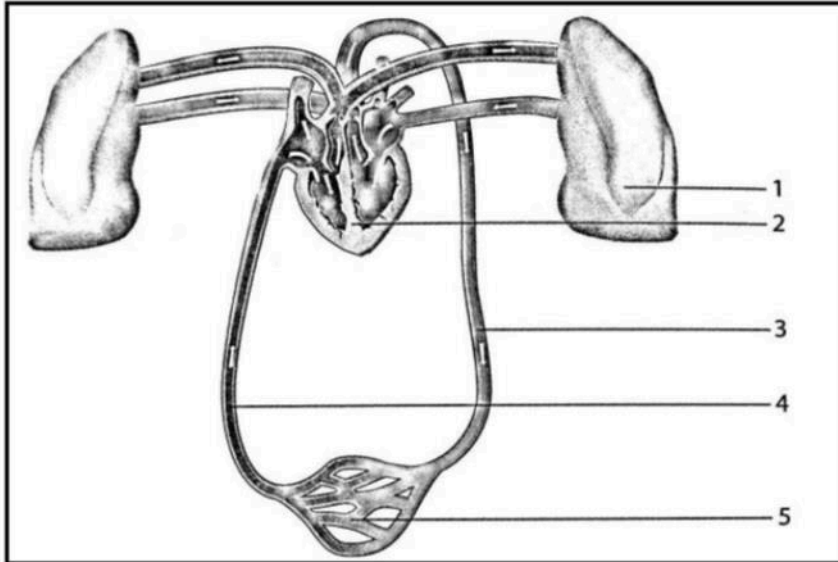
Anorexia, Rickets, Asthma, Ulcers, High blood pressure, Kidney stones, kidney failures, Liver cirrhosis, STDs, Heart attack.

- 4.7 Digestion is an important part of our nutrition. Briefly describe the distinguish between mechanical and chemical digestion.

(4)
[12]

QUESTION 5 Circulatory and respiratory systems

Study the diagram below that represents the human circulatory systems and answer the questions

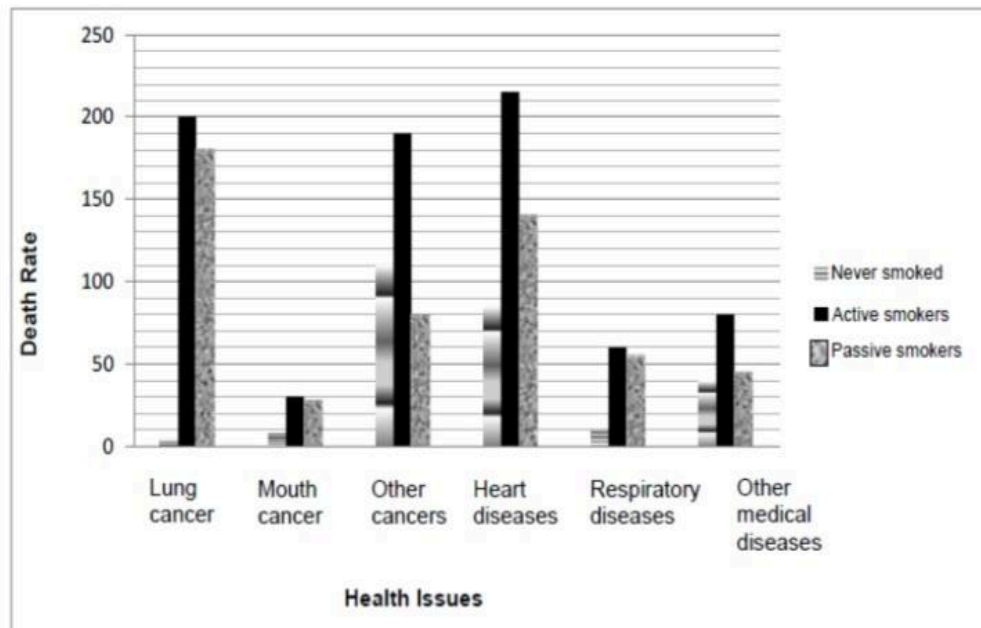


- 5.1 Label the part numbered 1 (1)
5.2 State the general names for the blood vessels represented by the parts number 3 and 4. (2)
5.3 Identify the process that takes place at the parts 1 and 5 (1)
5.4 Differentiate between the blood contained in the parts 3 and 4 (2)
5.5. Name any TWO systems in the human body (2)

6.5

CIRULATORY AND RESPIRATORY HEALTH ISSUES

Study the bar graph below that shows how many people in every 100 000, aged between 35 and 69, die from smoking and diseases related to smoking.



6.5.1 Use the bar graph to find out how many active smokers die of heart diseases (1)

6.5.2 Look at the different group of people (active smokers, passive smokers, and non- smokers) who die of respiratory diseases. From which group does the large number of people dies? (1)

6.5.3 Would you prefer to be an active smoker, passive smoker or non-smoker. Give a possible reason to support your answer. (2)

[12]

TOTAL MARKS: 70