

VHEMBE WEST DISTRICT

GRADE 08

NATURAL SCIENCE
MARCH COMMON TEST

MARKS: 100

TIME: 2 HOURS

This **QUESTION PAPER** consists of **SIX (06)** pages including the cover.

INSTRUCTIONS:

1. This paper consists of five (05) pages including the cover.
2. Read the questions carefully before answering.
3. Number your answers correctly and exactly as in the questions.
4. Answer all the questions in this question paper.

QUESTION 1

Four possible answers are given for each statement. Choose the correct answer and write the Corresponding letter e.g 1.1 E

1.1 Which two substances are needed for the process of respiration?

- A. CO₂ and H₂O
- B. CO₂ and O₂
- C. O₂ and Glucose
- D. H₂O and Glucose

1.2 The substance that is not a product of photosynthesis.

- A. Carbon dioxide
- B. Glucose
- C. Oxygen
- D. Starch

1.3 In the plant cells photosynthesis takes place in the structure called

- A. Mitochondria
- B. Vacuoles
- C. Chloroplasts
- D. Nuclei

1.4 A group of individuals of the same species living in the same ecosystem at the same time

- A. Community
- B. Habitat
- C. Biome
- D. Population

1.5 An animal that hunts and kill other animal for food

- A. Predator
- B. Prey
- C. Herbivore
- D. Producer

1.6 Which organisms of the listed below are micro-organisms?
(i)Horse, (ii) Amoeba, (iii) Bacteria, (iv) Dog, (v) Fungi

- A. (i), (ii) and (v)
- B. (ii), (iii) and (iv)

- C. (iii) and (v)
- D. (ii), (iii) and (v)

1.7 Organisms capable of making their own food

- A. Consumers
- B. Decomposers
- C. Herbivores
- D. Producers

1.8 The study of interactions between living things and their environment

- A. Ecology
- B. Ecosystem
- C. Habitat
- D. Population

1.9 Indication of the total amount of energy present in each trophic level

- A. Trophic levels
- B. Energy pyramid
- C. Food chain
- D. Energy

1.10 What is the meaning of the abbreviation “AIDS”?

- A. Anti-Immune Disease Syndrome
- B. Anti-Immunization Disease System
- C. Age Induced Diabetic Symptom
- D. Acquired Immune Deficiency Syndrome

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QUESTION 2

Give one word /term for each of the following description:

- 2.1 A food producing and storing process in green plants. (1)
- 2.2 Micro- organism that causes HIV and AIDS (1)
- 2.3 The illegal removal of plants and animals from the wild (1)
- 2.4 A substance that is used to test the presence of carbon dioxide. (1)
- 2.5 Organisms that break down the remains of dead plants and animals and their waste. (1)

[5]

QUESTION 3

Match each of the following description in column A with one of the terms / phrase in column B

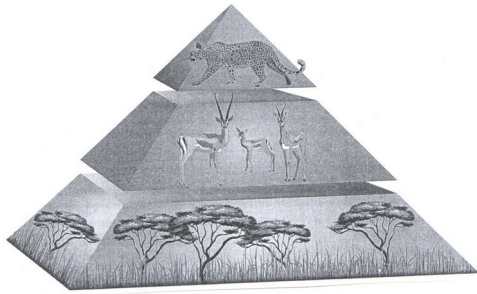
Write a question number and your chosen letter. e.g 3.3 J

COLLUMN A	COLLUMN B
3.1. The organism that transmits malaria from person to person	A Conservation
3.2. Non-living part of an ecosystem that creates suitable habitat to living organisms	B Deforestation
3.3. Wise management and use of natural resources that protect habitats and wild life	C Mosquito
3.4. A human activity that contributes to habitat loss and causes damage to ecosystems	D Camouflage
3.5. The capability of an animal to blend in with its surrounding	E Abiotic factor
	F. Biotic factor
	G. Bacteria
	H. Protists

[5] QUESTION 4

The diagram below shows a water pond extending into a cave in a mountain. Study it and then answer the question that follows.

- 5.7.2. Explain the effect this would have on biotic factors (2 effects) (2)
- 5.8. Describe three things that you as an individual could do to help conserve an ecosystem (3)
- 5.9. Explain what adaptation is. (2)
- 5.10. Explain **TWO** ways in which crocodile is adapted to survive. (2)
- 5.11. Look at the diagram below and answer the questions that follows



- 5.11.1. Identify the trophic level that is found at the base of the food chain/food web (2)
- 5.11.2. Explain what a trophic level is. (2)
- 5.11.3. Why is there less energy available at the top of the pyramid? (2)
- 5.11.4. Draw and label an energy pyramid that shows the amount of energy at each trophic level for the following food chain:

Algae → tad pole → small fish → heron (5)

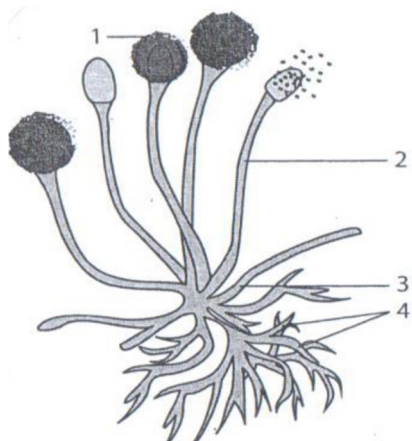
The algae have storage of 77000 KJ/m² per year that they trap from the sun,

Tad pole stores 4000 KJ/m², the small fish stores 250 KJ/m² and the heron stores 10 KJ/m².

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QUESTION 6

Study the diagram below and answer questions that follow.



- 6.1. What type of organism is represented by this diagram? (1)
6.2. Provide the levels for the parts numbered 1 - 4 (4)
6.3. Give 3 ways in which you can prevent being infected by micro-organisms. (3)
6.4. Name and describe the process invented by Louis Pasteur that makes liquid safe to drink (2)

TOTAL 100

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