Candidate's Number: _____

School's Name: _____

THE UNITED REPUBLIC OF TANZANIA

PRIME MINISTER'S OFFICE, REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT

DAR ES SALAAM CITY COUNCIL

MOCK EXAMINATION

FOR STANDARD SEVEN - APRIL, 2026

05E SCIENCE AND TECHNOLOGY

Time: 1 Hour 30 Minutes **DATE:.....**

INSTRUCTIONS

1. This paper consists of sections **A and B** with a total of **Eight (8)** questions.
2. Answer **all** questions in each section.
3. Write your answers in the space provided in each question.
4. All answers must be written in **blue** or **black** pen.
5. Write your **Number and Name of your School** in the space provided.
6. Cellular phones, and any unauthorized materials are not allowed in the assessment room.

FOR EXAMINERS' USE ONLY		
Question Number	Score	Checker's Initials
1		
2		
3		
4		
5		
6		
7		
8		
Total		

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SECTION A: (20 Marks)

1. Choose the letter of the correct answer and write it in the brackets provided.

i) _____ is a mammal but does not have sweat glands.
(a) Bat (b) Whale (c) Dog
(d) Rat (e) Turtle [ ]

ii) _____ are parts located on the back, tail and sides of a fish that enables it to swim
(a) tail (b) gills (c) lateral line
(d) fins (e) scales [ ]

iii) Air is a mixture of various gases. For fire to burn which gas is required?
(a) oxygen (b) carbondioxide (c) nitrogen
(d) argon (e) hydrogen [ ]

iv) It is the scientific study of the earth's crust, rocks and the history of its formation.
(a) astronomy (b) science (c) geology
(d) biology (e) physics [ ]

v) Seeds continue the reproduction of plants. In a seed, which part stores food for the growing plant?
(a) seed coat (b) cotyledon (c) embryo
(d) leaves (e) roots [ ]

vi) Your friend has asked you to open a spread sheet program, what steps will you follow to open it?
(a) click start menu ⟶ microsoft office ⟶ spread sheet program
(b) click start menu ⟶ spreadsheet program ⟶ microsoft word
(c) click start menu ⟶ microsoft office ⟶ microsoft word
(d) click start menu ⟶ microsoft office ⟶ microsoft word
(e) click start menu ⟶ microsoft ⟶ spreadsheet program [ ]

vii) George ate the following foods rice, ugali and cassava. At what part of the digestive system will the food George ate begin to be digested?
(a) stomach (b) appendix (c) large intestine
(d) mouth (e) small intestine [ ]

viii) Which of the following words is **NOT** placed on pesticides for killing insects?
(a) flammable (b) poison or danger (c) unsafe water
(d) irritant (e) harmful [ ]

ix) As an ICT expert, you have been asked for advice regarding weather matters, which antenna is best to use for weather forecasting?
(a) dish antenna (b) wire antenna (c) reflector antenna
(d) horn antenna (e) yagi-uda antenna [ ]

x) A lever has three main parts arranged in a specific sequence. Which arrangement represents a fluid-class lever?
(a) effort, load, fulcrum (b) fulcrum, effort, load (c) fulcrum, load, effort
(d) load, fulcrum and effort (e) effort, fulcrum and load [ ]

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2. Match the words in the following table from List A with List B

NO	COLUMN A		COLUMN B
i)	Plasma	[ ]	A. Has a circular shape that is sunken in the middle
ii)	White blood cells	[ ]	B. Protects the body and fights germs
iii)	Heart	[ ]	C. Receives waste
iv)	Red blood cells	[ ]	D. Pushes and pumps blood in the body
v)	Sickle cell	[ ]	E. Helps blood to clot
			F. Carries a large amount of oxygenated blood
			G. An inherited disease resulting from a difect in red cells

3. Answer the following questions by choosing the correct answer from the box.

Argon, carbon dioxide, nitrogen, oxygen, mass, joule, lever

i) Used to burn food in living organisms to produce energy _____

ii) Makes up 78% of the air _____

iii) Used in electric light bulbs _____

iv) The product of volume multiplied by density _____

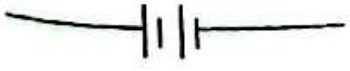
v) The unit of work _____

SECTION B (20 marks)

Fill in the blanks with the correct answer.

i) Which chromosomes are carried by male gametes in reproduction?

_____

ii)  What does the symbol represent in an electrict circuit?

_____

iii) Neisseria is a type of bacteria that causes a venereal disease called

_____

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5. i) In the following fire triangle diagram what thing is missing?



Letter x is _____

ii) If a scientist wants to conduct scientific research, they will follow organised steps. What is the first step in a scientific experiment? _____

iii) The head teacher of Chonza Primary school communicated with teacher Mussa using a phone to give him information he received in a meeting. Which type of network did the Headteacher use to communicate with teacher Mussa? _____

_____

6. i) A bicycle is one of the complex machines made of three simple machine which are a wheel and axle as well as

a) _____ (b) _____

ii) What type of simple machine is used to lift or lower things from a slanting surface?

_____

iii) Parts of a complex machine that rub together or move are lubricated to

_____

iv) Juma and Ally like to go fishing in the morning. A fishing rod is an example of which class of lever? _____

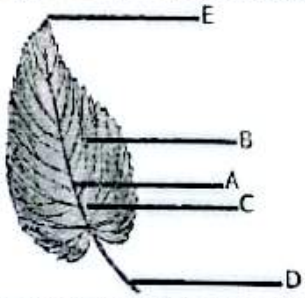
SECTION C (10 marks)

7. i) Work of 500 Joules was done over a distance of 2 metres towards the direction of the force. Find the force used _____

ii) Find the weight of an object with a mass of 10 kilograms and gravitational acceleration of 10 metres per second square _____

iii) Whether an object sinks or floats in water depends on three properties, one is the relationship between upthrust and gravity, others are _____ and _____

8. Examine the following diagram and then answer the questions below.



i) The green colour pigment found in part C of that diagram is called

_____

ii) What does letter B in the diagram represent? _____

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