

Candidate's Number _____
School's Name _____
Region _____
District _____

**KEYS EDUCATIONAL AND STATIONERY SERVICES (KESS)
REGISTRATION NUMBER: 473801**



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**WELCOME TO GRADE SEVEN ASSESSMENT
05E: SCIENCE AND TECHNOLOGY**

Time: 1:30 Hour

Friday 21st February, 2025

Instructions

1. This paper consists of sections **A, B** and **C** 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. Cellular phones, and any unauthorized materials are **not** allowed in the assessment room.
6. Write your **Index Number and Name of your School** in the space provided at the top right corner of every page.

FOR EXAMINERS' USE ONLY

QUESTION NUMBER	SCORE	EXAMINER'S INITIALS
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
TOTAL		
ENTERER'S INITIALS		
CHECKER'S INITIALS		

SECTION A (20 Marks)

Answer **all** questions from this section.

1. For each of the items (i) - (x), choose the correct answer then write its letter in the box provided.
- (i) Which among the following provides the information about dangers in items or the environment?
A. Living signs C. Non-living signs E. Safety signs
B. Main symbols C. Square signs
 - (ii) A science and technology teacher was giving one of the instructions of types of safety signs as follows; "Danger, Stop, Turn off or shutdown, Vacate and No entry for unauthorized person". What type of safety sign do you think was the teacher talking about?
A. Warning sign C. Prohibition sign E. Mandatory sign
B. Emergency sign D. High bridge sign
 - (iii) Safety signs are used in different places and on items available in our environment. Which among the following is **not** the use of safety signs in our environment?
A. Used to indicate danger C. Prevention of diseases E. Prevention of accidents
B. Used to provide instructions D. Directing people in un-safe places
 - (iv) "Electrical energy is also called an energy carrier". What is the main reason for the statement expressed in this sentence?
A. It can be converted into other forms of energy D. It is the source of all energies
B. It can be converted in any how E. It facilitate light energy
C. It can be converted to form other materials
 - (v) When generating electricity from water waves, there must be a power-generating plant from a waterfall. What is found in a power plant in order to generate that electricity?
A. Water and plant C. Plant and turbines E. Turbines and batteries
B. Turbines and generators D. Generators and copper wire
 - (vi) What causes water waves in the ocean, sea, lake or dam?
A. Wind C. Force E. Air
B. Magma D. Current
 - (vii) What do we call a substance or chemical used to control or kill organisms that affect plants, animals, or products?
A. Poison C. Pesticide E. Explosive
B. Spray D. Antibiotic
 - (viii) What precaution should you take to protect your eyes when using dangerous items?
A. Wear a mask C. Use a face cloth E. Wear a hat
E. Wear goggles D. Wear gloves
 - (ix) What is the density of an object having a mass of 1,000 kilograms and volume of 100 cubic metres?
A. 100 kg/m^3 C. 10 kg/m^3 E. 10 g/m^3
B. $10 \text{ m}^3/\text{g}$ D. 1 kg/m^3
 - (x) If the density of an object is less than that of water, what will happen if you drop the object into water?
A. It will sink C. It will float E. It will sink and float.
B. It will sink or float. D. It will dry completely

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2. Match the changes which occur during puberty in **List A** with the correct explanations in **List B** and write the letter of the correct answer in the space provided

List A	Answers	List B
(i) Ability to solve problems	()	A. Social changes after puberty
(ii) Showing deep emotions	()	B. Mental changes after puberty
(iii) Enjoying competition	()	C. Morphological changes to girls after puberty
(iv) Developing a soft voice	()	D. Changes in emotions during adolescence
(v). Seeking for help	()	E. One way of overcoming adolescence challenges
		F. Behaviour which increases challenges during adolescence
		G. Morphological changes to a boy during adolescence

3. Complete the items (i) - (v) by choosing the correct word given in the box and write it beside the item in the space provided.

Communication system, Radar, Antenna, Radio wave, A circuit, Electromagnetic waves, Satellite

- (i) A connection of components that can conduct electric current.

- (ii) A device that receives and transmits electromagnetic waves to communication devices such as radio and mobile phones.

- (iii) A specialized television transmitter or receiver orbiting the earth.

- (iv) Waves that are created as a result of vibrations between an electric field and magnetic field.

- (v) A system used to detect and track the movement of objects such as aircraft and ships.

SECTION B (20 Marks)

Answer **all** questions from this section.

4. Floating or sinking of objects in water depends on various factors. Mention three factors for floating or sinking of objects

(i) _____

(ii) _____

(iii) _____

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5. Answer item (i) – (iii) by writing the correct answer in the space provided.

(i) Explain the effects of liquid waste to the environment

(ii) Non-decomposable waste has harmful effects to the environment. Explain with examples

(iii) Proper waste management and destruction can be of great benefits. Explain by giving examples.

6. Answer item (i) – (iv) by writing the correct answer in the space provided.

(i) What are the structures used by reptiles to move?

(ii) Explain the importance of feathers to birds.

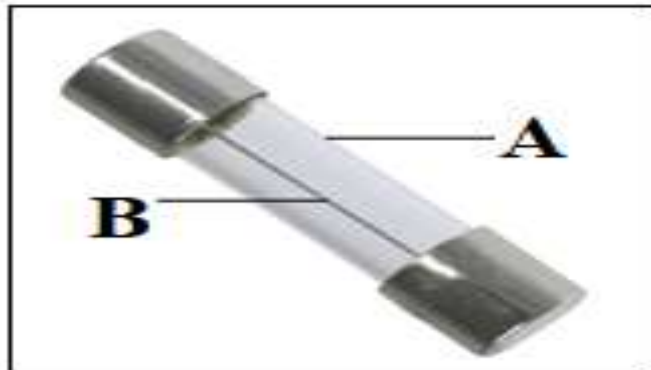
(iii) Why are bats considered as mammals?

(iv) How does a chameleon protect itself from danger?

SECTION C (10 Marks)

Answer **all** questions in this section

7. Observe the picture below then answer the questions that follow



(i) What is the name of the device shown in the picture above?

(ii) Name the parts represented in letter A and B

A represents _____

B represents _____

(iii) What is the main function of the device shown above?

8. Answer item (i) – (ii) by writing the correct answer in the space provided.

(i) Not all genetic disorders can result into diseases. Identify two genetic disorders that do not become diseases

a. _____

b. _____

(ii) Why males are more vulnerable to haemophilia than females? Explain briefly
