Candidate's Index Number_____

Name of the School_

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



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FIRST STANDARD SEVEN JOINT ASSESSMENT 05E: SCIENCE AND TECHNOLOGY

Time: 1:30 Hour Friday 8th March, 2024

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.

F	OR EXAMINERS' US	SE ONLY
QUESTION NUMBER	SCORE	EXAMINER'S INITIALS
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
TOTAL		
ENTERER'S INITIALS		
CHECKER'S INITIALS		



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SECTION A (20 Marks)

Answer all questions in this section

1.	For each of the items $(i) - (x)$, choose the	correct ans	wer from the given al	ternatives and write	its letter	in the
i.	brackets provided. Which of the following are the raw materi	als that nlant	s need for making thei	r own food?		
1.	A. Water, sunlight, carbon dioxide and wa	-	D. Water, carbon did		loronlast	
	B. Water, carbon dioxide, warmth and chl		E. Carbon dioxide, v		•	,
	C. Water, oxygen, temperature and chloro		E. Carbon dioxide, w	vater, sumight and ch	r	, 1
;;	Living things possess distinctive character	•	differentiate them from	non living things V	l Which	J
ii.	characteristic involves the process by which					moin?
	•	•	•		isin and re	epair?
	•		D. Reproduction	E. Respiration	1'.4' 11	
111.	The body temperature of mammals does n	· ·			dition call	iea?
	1		mic D. Homoeothermi			
1V.	Suppose you are asked to educate the citiz		•		not affect	the
	quality of the soil. Which farming practice	_	•			
		C. Use of pest		E. Cultivating on	steep slop	es
	11 6		use of chemical fertiliz		[]
v.	Soil is composed of different substances.				soil?	
		C. 30%	D. 50%	E. 45%	[]
vi.	Which of the following are sources of reno	ewable energ	•			
	A. Wind, sunlight, waterfalls, fuel and bio	gas	D. Wind, geother	mal power, waterfall	ls and fuel	
	B. Wind, sunlight, geothermal power, wat		iogas E. Firewood, cl	narcoal, coal and natu	ıral gas	
	C. Wind, sunlight, geothermal power, fuel	and biogas			[]
vii.	Each type of the safety signs is presented	in a specific s	shape and colour. Wha	t is the colour used for	or mandate	ory
	signs?					
	A. Yellow B. Red	C. Blue	D. Green	E. Black	[]
iii.	Identify the correct list of body parts whic	h are always	used in making observ	ration during the scie	ntific	
	investigation					
	A. Brain, nose, eyes and mouth	D. Bra	ain, tongue, skin, eyes	and ears		
	B. Brain, nose, eyes and nerve	E. Tor	ngue, eyes, nose, skin a	and ears	[]
	C. Eyes, skin, ears and hands					
ix.	A thermos flask is able to keep constant he	eat energy for	r a long time. By which	h process does the sil	lvered wal	l of
	the thermos prevent heat loss?			•		
	A. Radiation	C. Co	nvection	E. Conduction		
	B. Evaporation		th conduction and con		1]
х.	Which among the following groups of foo				L	,
	A. Cassava, beans, milk and millet	-	llet, cassava, beans and	d water		
	B. Cassava, maize, wheat and banana		nana, beans, water and			
	C. Fish, milk, beans and liver				[]



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2.	Match the explanations in Column A with the correct tabs of excel program	in Column B by writing the letter
	of the correct answer in the brackets provided	

	Column A	Let	ters	Column B
i.	It is used to perform common commands such as bold, underline, copy, and paste.	[]	A. File tab
ii.	It allows the user to insert tables, illustrations, apps, charts, reports, spark lines, filters, links, texts and symbols	[]	B. Home tab
iii.	It provides tools for formatting a page.	[]	C. Review
iv.	It enables the user to make proofing on the worksheet, change language, add comments and changes such as protect sheet and track changes.	[]	D. View
V.	It displays groups of commands that provide an opportunity to view data or worksheet in workbook view, display, zoom, window and macros.	[]	E. Page Layout
				F. Data tab
				G. Insert tab

3. Choose the correct answer from the box provided and write it is
--

A sexually transmitted disease which is caused by bacteria called Neisseria is known as
A sexually transmitted disease caused by bacteria called Treponema is known as
An airborne infectious disease caused by bacteria which usually affects the lungs is called
A disease that occurs when normal blood sugar levels are not maintained in the body is known as

v. Which disease affects human cells?

SECTION B (20 Marks)

Answer all questions in this section

- 4. Answer the following questions by writing the correct answers in the spaces provided
 - i. Which blood cells protect the body against disease causing organisms?
 - ii. The blood vessels which transport oxygenated blood from the heart to other parts of the body except the pulmonary artery are called
- iii. The blood vessels which transport deoxygenated blood from different parts of the body to the heart except the pulmonary vein are known as______
- 5. Answer the following questions by writing the correct answers in the spaces provided
 - i. Briefly explain why a ship floats on water while a needle sinks in water
 - ii. What is the standard unit of density?
 - iii. If the density of an object is less than that of water, what will happen if you drop the object into water?



6. Write the correct answers in the spaces provided

i. Differentiate between a simple machine and a complex machine

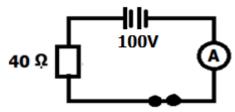
- ii. Why is the mortise lock grouped as a complex machine?
- iii. Akwilina was sweeping a classroom by using a broom. To which class of lever does a broom belong?
- iv. During the wedding of Mr. and Mrs. Choboliko, women were splitting logs to get firewood for cooking food. Which simple machines were used by the women?

SECTION C (10 Marks)

Answer all questions in this section

7. Answer the following questions by writing the correct answers in the spaces provided

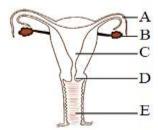
i. A standard six pupil connected the electric circuit as shown by the diagram below. Determine the amount of electric current flowing in the circuit



ii. The potential difference across the two ends of a wire is 12 volts. The amount of current passing through the wire is 0.4 amperes. What is the resistance of the wire?

iii. Mvunda pushed a barrel through a distance of 6 metres using 10 newtons. How much work was done by the Mvunda?

8. Observe the diagram below then answer the questions that follow:



- i. Name the part labeled B
- ii. Briefly explain the function performed by the part marked C