

## **SECTION A (40 Marks)**

Answer ALL questions in this section.

Choose the correct answer and **shade its corresponding letter** in special answer sheet (OMR) provided. 1. Growth is one of the characteristics of living things. Which of the following is not one of the essential needs for plant growth? A. Sunlight C. Water D. Carbohydrate E. Temperature B. Air 1 2. Which tissue is used to transport water and nutrients from the roots to stem and leaves of a plant? B. Vein C. Xylem D. Chlorophyll E. Phloem A. Stomata ſ 1 3. A science teacher was explaining to pupils about invertebrates. Which of the following examples would the teacher use to make the pupils understand well that concept? A. Lizard, fish, bat and frog C. Millipede, ant, butterfly and snail E. Worm, bat, snake and lizard B. Snail, crab, fish and grasshopper D. Grasshopper, millipede, butterfly and lizard ] 4. Standard five pupils were taught about two types of metamorphosis; which are complete and incomplete metamorphosis. Complete metamorphosis has how many stages? B. Three A. Two C. Six D. Four E. Five ſ 1 5. The agricultural expert was advising the farmers of Shaurimoyo village on the ways to control soil erosion. Which of the following ways were the farmers advised to adopt? A. Monoculture, use of manure and over cultivation D. Cultivating by terracing, intercropping and monoculture B. Terracing, mulching and the use of industrial fertilizers E. Deforestation, contour ploughing and mulching C. Cultivating by terracing, contour farming and strip farming 6. Isabela ignored to take the required precaution when she was using a toilet cleaning detergent with the irritant sign. Which of the following would be the possible effect that she would face? A. Electric shock C. Skin rashes E. Vomiting and diarrhoea 1 B. Fire accident D. Stains on her clothes 7. Sango was complaining about the frequent damage of his electrical appliances such as TV, Radio and refrigerator that has been caused by fluctuations in electric current. Which of the following devices would you advise him to use in order to solve that problem? A. Earth wire B. USB cable C. Ammeter D. Resistor E. Electrical stabilizers [ 1 8. A science teacher asked standard six pupils to prepare some materials in order to generate biogas. Which of the following materials were prepared by the pupils? A. Faeces, animal dung and food remains C. Wire, bulbs and Oxygen E. Water, kerosene and wire B. Water, Carbon dioxide and Oxygen D. Water, bottle and Oxygen 1 ſ 9. What is the angle between the plane mirror and the light reflected from the object in the periscope? B. 35° D. 90° A. 15° C. 30° E. 45° [ 1 10. It was sunny day and Tatu wanted to make fire but she had no a match box. Which device among the following would you advise her to use? A. Concave lens B. Convex lens D. Plane mirror E. Thermometer C. Periscope 1 ſ 11. What will happen to an electric current in a series circuit when resistors are added? A. The voltage will increase D. The electric current will increase in the circuit B. The voltage will decrease E. The electric current will decrease in the circuit 1 C. There will be no drop of voltage across the device 12. A child was playing with iron nails at the kitchen. Unfortunately, she dropped some iron nails into a basket containing rice. Which of the following tools would be used to separate the iron nails from the rice? A. Magnet B. Computer C. Mirror D. Lens E. Periscope ] ſ 13. What is the purpose of fixing magnets on the opening edges of a freezer and the doors of some cabinets? A. To expel heat C. To remove the iron nature E. To prevent rusting ſ 1 B. To warm the area inside D. To make the doors stick properly 14. The diagram below shows changes in the states of matter. Which two processes require an increase in temperature? A. L and M  $\mathbf{K}$ B. K and L Liquid C. J and K Γ 1 Solid Gas D. J and M E. K and M 15. Which of the following changes of matter is a physical change? C. Souring of milk A. Rotting of a plant

- B. Burning of charcoal
- D. Vapourisation of water

E. Rusting of iron ] ſ

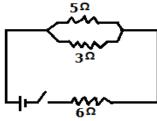
16. What is the normal blood pressure of an a	adult human being?	)			
A. 120/80mmHg B. 160/90mm		nmHg D. 100/50mmH			]
17. Neema was wondering why many pregna				y while	they
were not sick. The following are the reas	• • •				
A. To make checkups on the development	t of the baby D. To	get advice on how to a	void infections	[	]
B. To get advice on appropriate foods		get advice on how to b	reastfeed a child		
C. To get advice on how to take care of the	1 0 1				
18. When you exhale into a test tube contain	-	•			
A. The air we exhale has high level of ca		<b>)</b> . The air we inhale has		<b>e</b>	
B. There is no any change withing lime v		. The tube will have air	bubbles only	[	]
C. Lime water changes to milky liquid or	•				
19. Standard three pupils were taught about v	various sources of e	electricity. Which of the	following is not am	ong the	sources
of electricity that they have learnt?					
A. Battery B. Dry cell	C. Magnet	D. Bulb	E. Generator	[	]
20. Mr. Chambo, a science teacher at Miemb				s lever.	Which
of the following tools would he use as a t	0		• • •		
A. Wheelbarrow B. Pair of scissors	C. Claw hummer			[	]
21. Siwema has a problem of bleeding gums			f vitamins among th	ne follov	wing
would you advise her to consume in large		1			
A. B12 B. E	C. B2	D. C	E. A	[	]
22. Standard seven pupils of Kweulasi prima	•	to make a simple electri	c circuit as a part of	their le	sson.
Which materials among the following wo	•				
A. Bulb, wire and switch	•		E. Dry cell, wire and	l bulb	_
B. Switch, earth wire and fuse	D. Fuse, wire and			[	]
23. Mainda measured a stone with the weigh		Vhat will be the up-thru	st force when the sto	one will	be
immersed in a fluid which measures 160				_	_
A. 340N B. 10N	C. 80N	D. 20N	E. 100N		]
24. A health officer of Maendeleo village ad	vised the villagers t	to eat fruits and green ve	egetables. Why shou	ild the v	villagers
adhere to that advice?					
adhere to that advice?	~ -				
A. To build their bodies	C. To get energy		. To strengthen their	r muscle	es
A. To build their bodies B. To strengthen their body immunity	D. To give their	bodies heat	-	[	]
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<ul> <li>B. Yagi uda antenna, I</li> <li>C. Array antenna, aper</li> <li>D. Vertical antenna, h</li> <li>E. Microstrip antenna,</li> </ul>	y antenna, microstrip anter loop antenna, horn antenn rture antenna, yagi antenn orizontal antenna, feeder a loop antenna, Pyramidal	nna and reflector anten a and conical horn anten a and horizontal anten antenna and cable ante antenna and Home an	na enna na nna ntenna		[	]		
32. Apart from the hardwa			rotected against	programmes that	it can att	ack		
	ogrammes that can attack	1						
A. Computer viruses		C. Computer softwa		E. Antivirus	es	7		
B. Computer hardward		D. Uninterruptible		1 1 1 1 0 1		. ]		
33. The file tab of a work	-	oar that contains a list o	f ribbon commai	ids. Which of the	ne follow	ving		
words does not appear		0.0	DI		r	7		
A. Back	B. Close	C. Save as	D. Insert	E. Share	l, ,	]		
34. Which feature of Gma				•	om hack	ters?		
A. Draft	B. Outbox	C. Spam	D. Address	E. Starred		J		
35. Which part of the blood circulatory system transports deoxygenated blood from the body parts to the heart?								
A. Pulmonary artery		enal vein D. I	•	E. Vena cav	-			
36. Standard seven pupils				the basin filled	With Wa	ater. The		
	coin sank and the bowl fl	•						
	The weight of a coin is less than water D. The coin has no pointed shape					1		
	B. Has large shape and less space E. A coin has space inside C. The density of a coin is greater than the density of water					]		
37. Which method can be			naturad data in a	aciontifia ava	mimont?			
A. Conclusion	B. Interpretation		Hypothesis E. Ir		rinnent?	1		
38. Class five pupils have	1	*	v 1	0	L A disaase	] as that		
they have learnt?	learne about various epide	ennic diseases. which (	of the following i	s not among un	e uisease	es tilat		
A. COVID-19	B. Tuberculosis	C. Dengue fever	D. Ebola	E. Marasmu	e [	1		
39. Mr. and Mrs. Juma ha						h wara		
	niting and later on she sta							
Salma suffering from?		ited bleeding from the	nose, mouth and	cars. which di	seases w	as		
A. Tuberculosis		C. Dysentery	D. Sickle cel	1 E Ebola	Г	1		
					נ In the hu	man		
40. Ammonia is an excretory product that is produced when excess protein is broken down. Which organ in the human body is responsible for removing ammonia?								
A. Liver	B. Kidney	C. Skin	D. Lung	E. Heart	ſ	1		
	=				L	1		

C. Skin D. Lung E. Heart **SECTION B (10 Marks)** 

## For questions 41-45, write your answer in the space provided in the special form (OMR) by using a blue or black ink pen.

- 41. What is the difference between a website and a webpage?
- 42. The electrical engineer connected a circuit as shown by the diagram below. Calculate the total resistance



43. The following equation shows the process of photosynthesis in plants. Complete it by writing the raw materials which are represented by letter X and Y

Sunlight Carbon dioxide + X — Carbohydrate + Oxygen Y

(a). X represents \_\_\_\_\_ (b). Y represents \_\_\_\_

45. What is the major function of the bacteria and fungi which live in the soil?

<sup>44.</sup> A tailor has realized that the moving parts of his sewing machine have got rust and are not running smoothly. What advice would you give the tailor to avoid such a problem?