

## SPECIAL SET EXAMINER'S INTERVIEW 2023

SUBJECT: INTEGRATED SCIENCE
Time Allowed: 1Hr 30Mins

Teacher's name:			
Contact(s)	:		
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## Instructions:

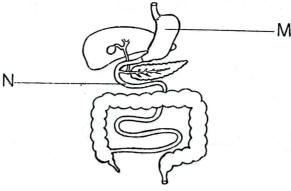
- ✓ Attempt all questions.
- ✓ All telephones <u>MUST</u> be switched off.

## **SECTION A (40 MARKS)**

## Questions 1 to 40 carry one mark each

- 1. Name the source of geothermal electricity.
- 2. Which vector spreads sarcoptic mange among people?
  - 3. How is mouth resuscitation useful to a victim of near drowning?
- 4. State the way ctenidia is useful to a cowrie.

The diagram below shows part of the digestive system. Study and use it to answer questions 5 and 6.



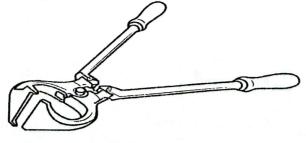
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5. Name the part marked N.	and the second s
6. State the role of part <b>M</b> in the physical digestion of food.	
7≈How is lack of vitamin B₂ a danger to one's health?	a company
8. Name the immunisable disease spread through sexual interinfected person.	rcourse with an
9. Why does porridge cool faster on a plate than in a cup?	
10. How are coconuts adapted to water dispersal?	
11.State the method used for recovering water mixed with co	oking oil.
12.Apart from determining the skin and hair colour, give <b>one</b> of melanin pigment.	other importanc
13. How does bee keeping help in the control of Kwashiorkor for members?	or among family
The diagram below is of a common tool used on a cattle far	m. Study and

use it to answer questions 14 to 15.



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14. Name the tool shown in the diagram above.	
15. How is the above tool useful on a cattle farm?	adagaan 17 oo
16.Name any <b>one</b> example of a natural change in the environ	ment.
17.Which component of the soil forms the greatest percenta	ge?
18.How is the role of a cotyledon in a maize grain different fr bean seed?	rom that of a
19.How does mulching maintain soil moisture?	
20.Give <b>one</b> way old metals can be reused in the environment.	•
21.How is excessive tobacco smoking dangerous to one's hear	rt?
22.Name the type of teeth which doesn't exist in a milk set of	teeth.
23.Why is the neck joint grouped under pivot joints?	
24.How is an echo similar to an image in the way they are form	ned?
25.Why does a stone sink when placed in water?	
26.Which rodent protects itself using a bad smell?	

27. Give <b>one</b> similar primary sex characteristic common in both adolescent boys and girls.
28.Why do livestock farmers keep Alpine goats?
29. Name one plant that climbs others by using hooks.
30. How are figers adapted to seeing clearly in total darkness?
31. Why do liquids and gases allow heat transfer by convection?
32.State the method of making magnets where permanent magnets are not used.
33. How is weather forecasting useful to a crop farmer?
34.Why are poultry vices and diseases not common in a cage system?
35.Which immunisable disease affects the brain?
36.How is fast flowing water useful in the production of hydroelectricity?
The diagram below is of a common plant in our environment. Study and use it to answer questions 37 and 38.

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38.How is part <b>Y</b> useful to the above plant?		
39. \ 	Why is it easier to push a wheelbarrow downhill than uphill?	
0.5	tate one factor to consider when selecting a given breed of goats to rear	
	SECTION B: 60 MARKS	
	Questions 41 to 55 carry four marks each.	
1.(0	) Name the <b>two</b> protozoan cattle diseases spread by ticks.	
(i)		
(ii	)	
(b	) Mention <b>two</b> methods used to control ticks on a cattle farm.	
	)	
(ii	)	
2.(0	) State <b>one</b> animal and plant fibre used in a textile industry. ) animal fibre:	
	) plant fibre:	
(ł	people.	
(		
	ii)	
3.(a	) Name <b>one</b> simple machine which simplifies work by:	
	reversing the direction of forces:	
	i) reducing the effort applied:	

(C)	Why is a knife grouped under simple machines?
44.The	e diagrams below show a method of artificial vegetative propagation.
Stud	dy and use them to answer the questions that follow.
	X—————————————————————————————————————
	Identify the method of propagation shown in the diagram above.  Name the parts labelled <b>X</b> and <b>Y</b> .
	X
(ii)Y	
(c) (	Give <b>one</b> advantage of the above method over the use of seeds.
45. (a)	To which group of invertebrates does a snail belong?
(b)	How is a freshwater snail dangerous to humans?
(c)	Name the causative agent for the disease spread by freshwater snails

46.	(a) State the types of germination which the following plants undergo.
	(i) peas:(ii) rice:
	<ul><li>(b) Give one role of the following conditions during germination.</li><li>(i) oxygen;</li></ul>
	(ii) warmth;
47.	<ul><li>(a) State the way crop rotation performs the following roles:</li><li>(i) improving soil fertility;</li></ul>
	(ii) controlling soil erosion;
	<ul><li>(b) Write a brief meaning on the following terms as used in crop growing:</li><li>(i) hardening off;</li></ul>
	(ii) gap filling;
48.	(a) Why are lactating mothers grouped under vulnerable people?
	<ul><li>(b) Apart from lactating mothers, give <b>two</b> other vulnerable groups of people.</li><li>(i)</li></ul>
	(c) Why should lactating mothers be given plenty of fluids to drink?
49	The diagram below is of part of the circulatory system. Study and use it to answer the questions that follow.
	N liver

(a) Name the blood vessels marked <b>M</b> and <b>N</b> .  (i) M;
(ii) N;
(b) State the function of the blood vessels marked and M.
(i) M;
(ii) N;
50.(a) State the two nitrogenous compounds excreted by the kidneys.
(i)
(ii)
(b) Name the disease of kidneys which can affect the eyes as well.
(c) How is the kidney adapted to regulation of body salts and fluids?
51. (a) State <b>two</b> ways people abuse drugs in the community.  (i)
(b) State <b>two</b> dangers caused by tobacco smokers to the community.
(i)
(ii)
52.(a) State the method of heat transfer which helps in;
(i)lighting a charcoal stove;
(ii) drying harvested crops;
(iii) ironing clothes;
(b) Why do the gaps in between rails appear narrow during hot weather?

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53. State the role of each of the a	components below during hot weather:		
	(i) carbon dioxide		
(ii) water			
(iii) sunlight energy			
(iv) chlorophyll			
54. Match the parts of the eye be	low to their functions		
Conjunctiva			
Favea centralis	forms images		
Retina	contains glands that produce tears.		
	forms the sharpest images.		
Ciliary muscle	adjusts the lens' thickness		
Correct order			
(i) Conjunctiva			
(ii) Favea centralis			
(iii) Retina			
(iv) Ciliary muscle			
	ommon vehicle in our community. Study and		
use it to answer the questions			
	T TOO X		
(a) Name the part of the above	e vehicle marked <b>X</b> .		
(b) How is the above vehicle us	seful in the promotion of sanitation?		
(Give <b>two</b> ways)			
(i)			
(ii)			
	les the part marked <b>X</b> to empty the septic		