

LYANTONDE DISTRICT ACADEMIC BOARD

MOCK 2022

INTEGRATED SCIENCE

Time allowed: 2 hours 15 minutes

Index No. :		School EMIS					Personal No.					
Candidate's Name	:	•••••	••••	•••••	• • • • •	•••••	•••••	• • • • • • • • • • • • • • • • • • • •	•••••	••••••	•••••	
Candidate's Signature	:	•••••	•••••	•••••	••••	•••••	•••••	•••••	•••••	•••••	•••••	 •
School Name	:	•••••	••••	•••••	• • • • •	•••••	•••••	•••••	•••••	••••••	•••••	 •
District Name	:	•••••	•••••	•••••	••••	•••••	•••••		•••••	•••••	•••••	 •

Read the following instructions carefully:

Index No

- 1. The paper has **two** sections: **A** and **B**
- 2. Section **A** has 40 questions (40 marks)
- 3. Section **B** has 15 questions (60 marks)
- 4. Answer **ALL** questions. All answers to both Sections A and B must be written in the spaces provided.
- 5. All answers must be written using a blue or black ball point pen or ink. Diagrams should be drawn in pencil.
- 6. Unnecessary crossing of work may lead to loss of marks.
- 7. Any handwriting that cannot be easily read may lead to loss of marks.
- 8. Do **not** fill anything in the boxes indicated; For Examiner's use only.

FOR EXAMINER'S USE ONLY

Qn. No	MARK	SIGN
1 – 20		
21 – 40		
41 – 43		
44 – 46		
47 – 49		
50 – 52		
53 – 55		
TOTAL		

SECTION A:

Questions 1 to 40 carry one mark each

1.	Name the percentage of the gas that supports burning.
2.	Name one device used to store sound.
3.	Which type of teeth is used to tear flesh?
	The diagram below is of a simple electric circuit. Use it to answer questions 4 and 5.
	$\begin{bmatrix} & & & & & \\ & & & \\ & & & & \\ & & \\ & & \\ & & & \\ & & \\ & & \\ & & & \\ & & \\ & & \\ & & \\ & & \\ & $
4.	Name the part of the circuit labelled Y.
5.	State the function of part marked S .
6.	Apart from immunization, give one other way of preventing the spread of Polio.
7.	By what process does heat from the charcoal stove reach someone preparing a meal?
8.	In which way is a tapeworm different from a hookworm in terms of feeding?

9.	State the function of the endosperm of a maize grain.			
10.	State any one way in which the spread of germs by fingers can be controlled.			
11.	How can a hutch be constructed to ensure that rabbits do not dig burrows to escape?			
12.	How much sugar is needed to prepare one litre of Oral Rehydration Solution?			
13.	State one advantage of using a VIP latrine over the usual ordinary pit latrine.			
Т	he diagram below shows a type of roots. Use it to answer questions 14			
a	nd 15 .			
14.	Name the roots marked Q .			
15.	State one function of the roots you have named above.			

17.	Why are electric wires not tightly fixed on poles?
18.	What is frequency as used in sound?
Т	he diagram below shows diffused reflection. Use it to answer question 19
19.	What do such reflections tell you about the reflecting surfaces?
20.	Why is water obtained through decantation not good for drinking?
21.	In which way is a hand fork important to crop farmers?
22.	What term describes the process by which plants make their own food?
23.	Give the difference between a burn and a scald .
24.	How does oil spread on stagnant water help to control malaria?
25.	How important are the cilia found in the nose?
26.	Apart from cassava, give one other example of a root tuber.

2/.	How is oxygen useful to a germinating seed?
28.	State one reason why worker bees are able to protect the hive.
29.	Suggest the best way of controlling cannibalism in poultry.
30.	State the function of the blood cell shown below.
	nucleus
31.	How do latrines help in control of diarrhoeal diseases?
32.	Which structure in a modern beehive prevents the queen bee from crossing to the honey chamber?
33.	How are wading birds adapted to walking in shallow water?
34.	Why are minerals regarded as non-renewable resources?
35.	How is a lateral line important to a fish?
36.	State one way man can make good use of smoke.
37.	Why are vaccines kept under very cold conditions?
38.	Why are people's bodies able to form shadows?

39.	In	which way is respiration s	imilar to	rusting?
40.	Sta	te the function of the cork	c on the	e vacuum flask.
				50 MARKS rry four marks each
41.	Mat	tch the following body sys		•
		BODY SYSTEM		FUNCTION
	(a)	Circulatory system	(i)	Removes carbon dioxide from the body.
	(b)	Respiratory system	(ii)	Protects the delicate organs in the body.
	(c)	Digestive system	(iii)	Absorbs the simple food
	(d)	Muscular Skeletal		substances so that they can be used by the body.
		system	(iv)	Carries food, water and oxygen to all parts of the body.
ā) Circ	culatory system		
Ł) Res	spiratory system		
C	 Dig:	estive system		
		······································		
(I) Mu	scular Skeletal system		
	.,			

42.	(a) How do people benefit from f	eeding on food rich in Vitamins?
	(b) Mention two vitamin deficien	
	(ii)	
		ring food deficiency diseases among
43.	Study the diagram below and	l answer the questions that follow.
	Pulley X	Pulley Y
	Load 30N	Load 30N
(a	a) Identify the pulley system man	rked Y .
(b	b) State one reason why point P	should be lubricated.

(d) State one way how pulley X is applied in schools.
44.	(a) Give two examples of vectors which spread diseases without biting.(i)
	(ii)
	(b) Give two ways of controlling mosquitoes at home.(i)
	(ii)
	The diagram below shows part of the human digestive system.
U	se it to answer questions that follow.
(a	Name part marked with letter E .
(b	By what process does food move through part marked B to part marked D ?
(c) How is the juice produced by part labelled with letter C useful during digestion of food?
(d) State any one way you can promote proper working of the digestive system.

46.		Name two substances filtered from the blood in the cortex.
	(i)	
	` '	Identify two substances that are selectively re-absorbed in the
		lulla.
	(i)	
47	(ii)	dy the disayon below and use it to answey the avections
		dy the diagram below and use it to answer the questions ollow.
		PQ
	(a)	Identify the structures marked P and Q .
		(i) P
	(b)	(ii) Q
	(c)	Suggest one reason why a good first aider should be knowledgeable.
48.	(a) (Give two ways in which poultry can be given exercises.
	(i)	
	(ii)	
		Suggest two ways of preventing diseases in poultry.
	(i)	
	(ii)	

49.	49. State the role played by each of the following in reproduction.		
	(a)	Sperm	
	(b)	Oviduct	
	(c)	Umbilical cord	
	(d)	Placenta	
50.	Th	e diagram below shows a structure used for keeping of bees.	
	Stu	udy and use it to answer the questions that follow.	
		All and the second seco	
(a)	Identify the type of modern beehive shown in the diagram above.	
(a)	identity the type of modern beenive shown in the diagram above.	
(b)	How is the part labelled Z useful to the beehive?	
(D)		
,	٦-١	Chaha and wasan fam.	
(c)	State one reason for:	
	(i)	Hanging the hive so that it does not touch the ground	
	(ii)	Greasing the suspending wires of the beehive	

51. In the table below, list A shows the different animals from those in list B. Use it to answer the questions that follow.

LIST A	LIST B
a) Frog	(i) Goat
b) Crocodile	(ii)Tiger
c) Dove	(iii) Mouse
d) Tilapia	(iv) Seal

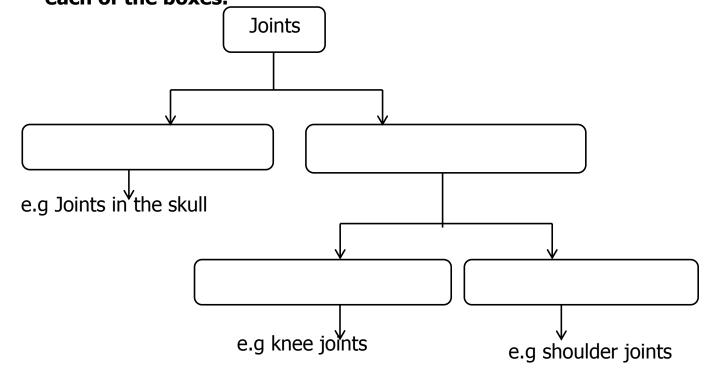
(a)	Give one	similarity	between	animals	in	list A	and	В.
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(b) To which group of vertebrates do animals in list **B** belong?

(c) How is a dove different from Tilapia in the way they move?

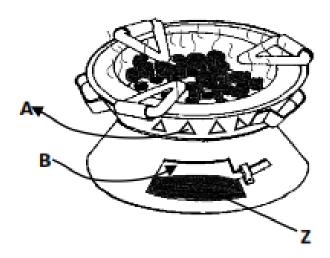
(d) Why would you group a dog in group **B**?

52. In the classification table below, give a suitable sub-heading in each of the boxes.



53.	(a) Mention two methods of making water clean. i)					
	ii)					
	(b) State two advantages of soaking clothes before washing.					
	ii)					
54.	Study the diagram below and use it to answer the questions					
· Cir	at follow. Process A					
(a) Name the processes A.					
(b) Mention the process that follows the one you have mentioned in (a) above.					
(c)	State two observable changes that take place in flowers after processes in (a) and (b) above have taken place. (i)					
	(ii)					
55 .	The diagram below shows a clay-lined charcoal stove. Use it to					

5! answer the questions that follow.



		END
	conserving wood fuel.	
(d)	Apart from using energy saving stoves, state any one way of	
(c)	What would happen if part Z was kept closed for a long time.	
(b)	How does clay lining help to conserve the fuel used?	
(a)	Why is the above charcoal stove regarded as an energy saving s	stove?