## LIRA CITY ACADEMIC BOARD PLE-MOCK ASSESSMENT 2024



## INTEGRATED SCIENCE PAPER

Time Allowed: 2 hours 15 minutes



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## DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DOSO READ THE FOLLOWING INSTRUCTIONS CAREFULLY

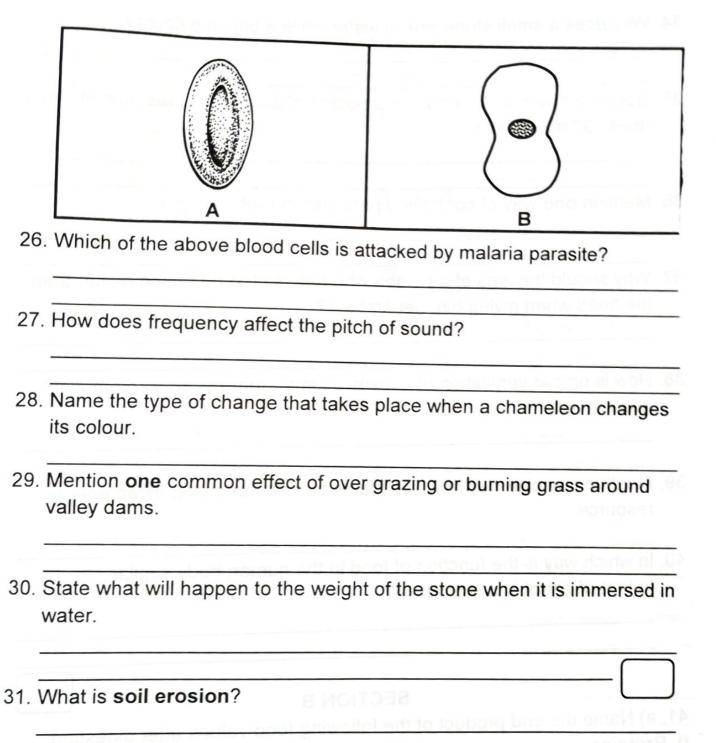
- The paper is made up of two sections: A & B.
- 2. Section A has 40 questions (40 marks)
- 3. Section B has 15 questions (60 marks)
- 4. Answer ALL questions in both sections A & B
- All answers must be written in the spaces provided in BLUE or BLACK ink. Only diagrams should be drawn in pencil.
- Unnecessary crossing of work will lead to loss of marks.
- Poor handwriting, which cannot be easily read may lead to loss of marks.
- 8. Do not fill anything in the boxes shown

QN. NO.	MARKS	EXAMINER'S INITIALS
- 10		
11 - 20		
21 - 30		
31 - 40	nehoo	8
41 - 43		125
44 - 46		11 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
17 - 49		2 4 10 14 4 9
50 - 52	10	A. 8.
53 - 55	15	9
OTAL	1	* 800

1.	SECTION A  How is oxygen useful in the process of germination?
2.	Which component of soil is used by plants to make starch?
	Give <b>one</b> way a farmer can improve nitrogen content in the soil without using artificial fertilizers.
	The diagram below is of an optical instrument .Use it to answer question:
	Object B Eye
4.	At what angles are mirrors <b>A</b> and <b>B</b> placed?
	Why is it important for the government to collect information on human health?
6.	State what determines the size of an image in a pinhole camera.
7.	Which property of a magnet enables a compass to operate?

In the space p	provided be	low draw	a compour	nd digitate	loaf
			- compoun	- argitate	ieai,
	an Archae				
. Give <b>one</b> fund	ction of a joi	nt in a hur	man body.		
How is a crus	h important	on an ani	mal farm?		
	· · · · · · portaint	On an ann	mai iam?		
What do birds	use to dete	ct sound	waves in air	?	11 10
Give one adva	antage of a	single mo	vahle pullov	01101 0 0 0 0	1- 6
pulley.	amage of a	origic ino	vable pulley	over a sing	le fixed
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In what state of	of matter is i	ce at <b>101</b>	C?		
n research	s sailt ihailm	tes to a front	a con Orom	sa Indos	
How is the hur	nan heart a	dopted to	its function?	>	
A last with	1 12 17		But Profit	A tilly sidi	
Name the clas	s of food dig	gested in t	the mouth?		

17	. Why do clothes take long to dry on a cloudy day after washing and hanging?
18	State the method of heat transfer in gas.
19	. Name any one vector that spreads germs to people.
20	Which animal uses the structure drawn below as its habitat?
21.	How is the reproduction of yeast different from that of fungi?
22.	Why is tepid sponging important in giving first aid?
23.	Write COVID-19 in full.
24.	How does lack of vitamin D in a child's diet affect the skeletal system?
25.	Why do people who smoke tobacco find it difficult to quit the habit?



32. Why is BCG vaccine given to babies immediately after birth?

33. Give one way a farmer can prevent unwanted swarming of bees on the farm.

Why does a small stone sin	k in water while a big ship floats?
Doctor Job wrote "2" x "3" does "3" represent?	on a pocket of drug in his prescription, what
Mention one way of controll	ing parasites in rabbit keeping.
Why should the legs of a pe the head when giving him\he	rson who has fainted be raised higher than er first aid?
How is proper ventilation of good health?	houses an important aspect in promoting
Mention any one way in whice resource.	ch plants benefit from wind as an energy
In which way is the function to that of petrol in a motorbik	of food in the human body similar ke?
	SECTION B
a) Name the end product of t roteins	the following food values after digestion;
rediately after birth?	2. Why is BCG vaccine given to bables imm
ats and oil	
ate <b>one</b> use of proteins in w	a sive one way a farmer can prevent unwer
SECURE USE OF DEPICE IN W	F111000
	Doctor Job wrote "2" x "3" does "3" represent?  Mention one way of controll  Why should the legs of a pethe head when giving him\h  How is proper ventilation of good health?  Mention any one way in whi resource.  In which way is the function to that of petrol in a motorbik  a) Name the end product of the roteins  ats and oil

c) willy does a sta	arved person become weak?
42. a) Name the p	part of the kidney where each of the following takes place;
) Filtration of bloc	od where each of the following takes place;
i) Selective re-ab	sorption of filtered substance
Storage of was	te removed from blood.
Give a reason v	why people urinate more frequent during cold weather.
)	examples of harmful insects.
i) o) How are the foll ) <b>Termites</b>	lowing insects useful to people?
Moth	The College of the Co
14. a) What is <b>pub</b>	perty?
How is a foetus	different from an embryo?
s) State any <b>two</b> e development pe	emotional changes that take place during growth and eriod in human beings.
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45. The diagram below shows a safety equipment .Use it to answer the



a) Which component of	
component of a	air is commonly used in the above equipment?
	if the above equipment?

b) How is the	above equipme			
	equipme	ent used to keer	o safety at	cohoolo
		- 1	culcty at	SCHOOL!

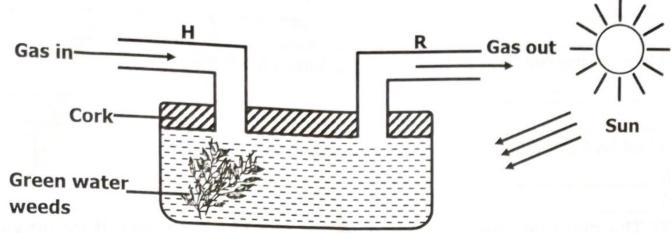
- c) Give one way of keeping the above equipment effective.
- d) Why should students be taught how to use the above equipment?

46. The table below shows how Mr. Adwany uses his garden.

		First season	Seasons
on	Second season	Soya beans	Year one
	Ground nuts		Year two
rii.	Ground nuts Beans	Peas	Year two

- a) What crop growing practice is being carried out by Mr. Adwany?
- b) State two dangers of the crop growing practice above.
- ii).
- c) Why is watering done to crops during the dry season?

47. Study the experiment below carefully and answer the questions that follow.



- a) What process does the above experiment show?
- b) Which gas enters through tube H?
- c) Which gas is given off through tube R?
- d) How is the above process in the plants essential to animals?
- 48. Tom stood infront of a looking mirror, his image was formed 12 metres away behind the looking mirror.
- a) How far was Tom from the looking mirror?
- b) Give a reason for your answer in (a) above.
- c) Name one instrument that uses plane mirrors.
- d) Give one way people make use of reflection of light.

49. a)	Which part of an egg develops into a chick during incubation?
b) Hov	w is the function of the air sac different from that of an egg shell?
. /	two conditions that allow a fertilized egg to hatch.
ii) 50. <b>Th</b>	ne diagram below shows a young one of a frog. Use it to answer
a) Nam	ne the part marked R.
	does the above animal die when removed from water?
_	are amphibians able to control mosquito borne diseases?
d) Apar	t from frogs, give <b>one</b> other example of amphibians.
51. Nar ). Live	ne the waste products excreted by the following organs.
i). Skin	
o) Identi	ify one life style that endangers the effectiveness of the liver.

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Match the following infec	tious diseases to their signs.
Infectious disease	Common sign
i) Dysentery	Bloody urine.
ii) Cholera	Madness in adult if not treated
iii) Bilharziasis	Bloody diarrhoea.
iv) Syphilis	Diarrhoea with vomiting.
Dysentery	
Cholera	
Bilharziasis	
questions that follow.	s the rain cycle. Use it to answer the
	s the rain cycle. Use it to answer the

c) In which two ways do people sustain rain in the environment?
i)ii)
54. a) Give <b>one</b> advantage of hand milking of cows.
b) Why should a milk man perform the following activities during milking? i) Washing teats and udder with warm water.
ii) Smearing the teats with Vaseline.
c) State <b>one</b> way of preserving milk.
<ul><li>55. Below is a wrong order of steps followed to administer first aid to a person who has fainted.</li><li>i) Chase away the standers to provide fresh air to the victim.</li><li>ii) Lie the victim on his or her back in an open place.</li></ul>
iii)Raise the victim's leg higher than the head.
iv)Remove or loosen the light clothes from the victim's body.
Rearrange the steps above to make a correct order of administering first aid for fainting.
(i) State to a largortance of treas during the para cycle. (ii)
v)
*END*

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