

THE SPECTRUM EXAMINATIONS HUB PRE-MOCK EXAMINATIONS, 2024 SET 1 INTEGRATED SCIENCE

Time allowed: 2 hours 15 minutes

	EMIS No.				Personal No.				
Index No.									
Pupil's Name:									
School Name:									
District Name:									
Read the following					FOR EX	AMINE	R'S USE		
1. This paper has to	wo secti	ons: A an	d B.		QN. NO.	M	IARKS	EXR'S	NO.
2. Section A has 20 questions (40 marks)					1 - 10				
3. Section B has 12	questio	ns (60 ma	rks)		11 - 2	0			
4. Answer all questions. All the working for both sections A and B must be shown in the spaces provided.			21 - 3	0					
				31 - 4	0				
5. All working must be done using a blue or blackball point pen or ink. Any work done in				n	41 - 4	3			
pencil will NOT be marked except drawings and diagram.			and	44 - 4	6				
6. No calculators are allowed in the examination. 7. Unnecessary changes in your work and handwriting that cannot be easily read may lead					47 - 4	9			
					50 - 5	2			
to loss of marks.				53 - 5	5	_		_	

TOTAL

question paper.

examiners' use only" and the boxes inside the

8. Do not fill anything in the table indicated; "For

SECTION A.

1. Which general name is given to materials that do not allow heat or electricity to pass through them?
2. Identify any one type of weather that requires the use of an umbrella
3. If the mass of an object is 45g and its volume is 5cc. find its density.
4. Which component of blood is responsible for defending the body against disease causing germs?
5. Which human food is got from cotton seeds?
6. In which way is melanin in the skin useful to people?
7. Identify the method of seed dispersal shown below.

8. Give an example of a plant which is dispersed through the above method.

9.	Why is it dangerous to eat under cooked pork?
10.	John's torch uses 3 dry cells to light .Calculate the voltage of John's torch.
11.	Write any one advantage of fencing animal to farmers.
12.	Apart from a measuring cylinder, name any other instrument used in measurement of volume of irregular objects.
13.	Which form of energy enables plants to make starch?
14.	Give any one advantage of reading medical instructions before using a drug.
15.	Give any one property of floating objects.
16.	Why is it important to teach children oral and dental care?

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17.	Apart from a watch, name any one other device at home that uses
	dry cells.
	The diagram below shows a leg of a bird. Use it to answer
	question 18 and 19.
	x
18.	Name the kind of food that the above bird feeds on.
19.	How are structures labelled x useful to such birds?
20.	How can you help a crop farmer to improve the fertility of his land?
21.	Mention any one material used for building a permanent house.
22.	Why would you encourage all people at home to use an insecticide treated mosquito net?
23.	How is a cat of help to a crop farmer?

24.	State any one use of water at school.
25.	What action can you take to help a child who has an insect in the ear?
26.	Name the mineral nutrient responsible for the formation haemoglobin in blood.
27.	Identify any one health problem which is associated with population increase.
28.	Apart from being used for food, write any other use of seeds to people.
29.	In which way is the function of muscles similar to the one of joints in the body?
30.	Give any one use of animal cow dung to people.
31.	Name any one disease that can spread due to poor dispersal of refuse.
32.	Why should people spread out their beddings regularly in the sunshine?

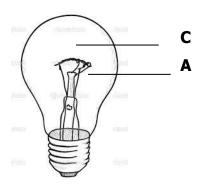
33.	Draw a diagram of an example of a wedge in the space below.
34.	Why is it important for a community to clean their water sources
	regularly?
35.	Which part of the human alimentary canal produces hydrochloric acid?
36.	Name the process in plant which is similar to sweating in people.
37.	Give any one disadvantage of refraction of light to people.
38.	What advise would you give to a breast feeding mother to help her produce more milk for her baby?
39.	State any one advantage of using electricity for cooking.

SECTION B.

40. (a) Match the following types of joints with their locations in the body correctly.

A	В
Gliding joints	Elbow and knee
Pivot joints	wrist and ankle
Ball and socket joints	at the neck
Hinge joint	shoulder and hips.
A	В
Gliding joints	
Pivot joints	
Ball and socket joints	
Hinge joint	
41. (a) Which part of the following	g crops can be used for producing
alcohol?	
Millet	
Cassava	
(b) Name the fungus which is use	ed in the production of alcohol.
(c) Apart from waragi, give a	ny other example of an alcoholic drink.

42. The diagram below is of an electric bulb; use it to answer the questions that follow.



(a)	Name the part labelled A.
(b)	Why is part marked with letter A coiled?
(c)	What is the use of gas found in part marked C ?
(d)	What energy changes take place when an electric bulb is in use?
43 (a) \	Write any one example of each of the following Solute Solvent
(b)	How can you separate a mixture of beans and stones?
(c)	Give a method of separating mixtures used when getting

juice from passion fruits.

44. The diagram below shows a human being with a certain deficiency disease.



(a)	above.
(b)	State the main cause of the disease named above.
(c)	How best can such a disease be prevented?
(d)	Give any one other deficiency disease that affects human beings.
15. (a	n) Name the second stage of the life cycle of a cockroach.
(b)	State any one disease spread by cockroaches to people.

infestation in a home?

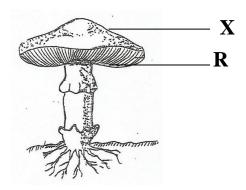
(c) How can you help family members to reduce cockroach

	llow.	e list oi	items	below t	o answer questio	ns th
Go	oat v	vind	coal	sisal	petroleum	
a)	Name ar	•	tems ab	ove that	belong to renewabl	e
(i)				(ii))	
	Identify c					
(b)	•	om provion		at, give a	any one other produ	ıct
⁷ . (keep for the following	
	purpos	es?				
(i)	Mea	t product	tion			

(d)	Write any one advantage of keeping records in a poultry
	farm.
48.	Study the diagram below and answer questions about it.
	G
(a)	Name part marked F on the above diagram.
(b)	On which principle does a dynamo work?
(c)	In which way does a bicycle tyre help the dynamo to produce electricity?
(d)	How can a bicyclist make the bicycle headlamp connected to a dynamo produce brighter light?
49. (a) Write one way through which HIV spreads from an infected person to a healthy person.
	······································

(b) State any one effect of HIV/AIDS to the community.
(c)	Why should children be taught about HIV/AIDS?
(e)	
50.	(a) Identify any two objects that produce light on their own.
	(i) (ii)
	(b) Give two uses of light in the environment.
	(i)
	(ii)
(a)	Mention any one condition for rusting to occur in
	metallic materials.
(b)	Why is rusting regarded as a chemical change?
(c)	How can you protect metallic materials from rusting?
	(i)
	(ii)

51. The diagram below shows mushroom.Study it and answer the questions that follow.



(a)	Name part labelled x.				
(b)	Of what use are structures marked R to mushrooms?				
(c)	How do mushrooms feed?				
(d)	How do people benefit from growing mushrooms?				
52. (a) State the importance of the stomata on the plant leaf.					
) Give the two types of venation in plant leaves.				
()) Why do some plants shed their leaves in dry seasons?				

53. The table below shows characteristics of different types of soil. Use it to answer the questions below.

A	В	С	
Dark in colour	coarse or rough	Sticky of slippery	
Has a lot of humus.	largest air spaces	when it rains.	
Has silt	Highly aerated	water logged	
	Has bigger particles	Has finest particles.	

(a)	Identify the type of soil at A and C .
(i)	A
(ii)	C
(b)	Which soil sample would you use for the following?
(i)	Making pots
(ii)	Filtering muddy water
54. (a)	Write down any two devices used to store sound. (i)
	(ii)
	(b) Suggest one reason why sound is stored.
	(c) Mention one example of a wind musical instrument.

55. Re-arrange the following steps of making ORS in their correct order.

- a. Measure one litre of drinking water in a clean container.
- b. Stir the mixture and taste before it is given to a patient.
- c. Measure eight levelled teas poons of sugar and one levelled tea spoon of salt in the container.

Wash your hands with clean water and soap.							

THE END