PRE - PLE SPECIAL SET II - 2022 INTEGRATED SCIENCE

Time allowed: 2 Hours 15 Minutes

Index No.

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Candidate's Name:	
Candidate's Signature:	
School Random No: District ID:	FOR
Read the following instructions carefully.	EXAMINER
 This paper has two sections A and B. 	USE ONL

- 2. Section A has 40 short 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 spaces provided.
- 5. All answers must be clearly written using blue or black ball point pen or ink. Only diagrams should be drawn in pencil.
- 6. Unnecessary changes of work may lead to loss of marks.
- 7. Do not fill in the boxes. They are for examiners' use only.

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QN.	MARK	SIGN		
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1-10		P		
11-20				
21-30	Den /	30.		
31-40				
41-43				
44-46				
47-49				
50-52				
53-55				
TOTAL				

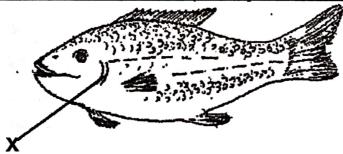
SECTION: A

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The source of the second section of the

- 1. Name the part of a seed that germinates.
- 2. Apart from liquid, give another state of matter through which heat travels by convection.
- 3. State any one role of the circulatory system in the excretion process.
- 4. What happens to a sugary solution when yeast is added?
- 5. State one advantage of recycling plastic wastes over burning.
- 6. Why do stones produce light sparks when they hit each other?
- 7. Give any one way of carrying out health education in the community.
- 8. Name any one ectoparasite controlled through wearing shoes.
- 9. Give one use of old clothes in the control of crop pests in the garden.

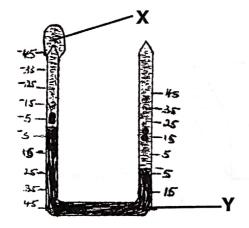
The diagram below show a fish, study it and answer questions 10 and 11.



10. Name part X.

- 11. What is the function of the organ protected by part X.?
- 12. Mention one electrical appliance at home that turns electrical energy into kinetic energy.
- 13. How is Melanin useful in the prevention of rickets?
- 14. State any one way counseling is important to people living with HIV.
- 15. Give one way of preventing siltation of water bodies.
- 16. How do adults acquire immunity naturally?
- 17. Name the nutrients that plants get from humus.
- 18. Give one way of safe guarding ourselves against lightning.
- 19. How do railway engineers manage the effect of heat on matter?
- 20. What first aid can be given to person who has taken too much alcohol?
- 21. Which term is used to mean the ratio of the load to the effort in machines?

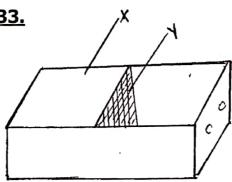
The diagram below shows a six's thermometer. Study it and answer guestions 22 and 23.



- 22. Name liquid marked X.
- 23. Why is liquid Y unable to measure temperature below 0°C?
- 24. Give a reason why some disease vectors bite animals.
- 25. State any one way of preparing seedlings to the garden conditions before transplanting.
- 26. How is photosynthesis important in the food chain?
- 27. What is the use of hydrochloric acid to the enzymes in the stomach?
- 28. Why should customers read the expiry dates of their products before use?
- 29. State one way of controlling splash erosion in the garden.
- 30. State any one characteristic of roots that form the fibrous root system.
- 31. Give any one way health problems in a community can be gathered.

The diagram below shows a modern hive. Study it and answer the

questions 32 and 33.



32. Name the chamber marked X.

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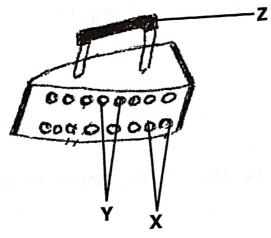
33. State the importance of part Y.

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	wiles to the enter wall of a	vacuum flask painted with silver?
34.	Why is the outer wall of a	Vacuum nask pame

- 35. Give one importance of sorting rubbish before using it in the garden.
- 36. Apart from protection, give one other way animals benefit from Camouflaging.
- 37. Give any one importance of sand in the water cleaning process.
- 38. Why is a tadpole unable to live on land like adult frogs?
- 39. Give one reason why a biogas digester should be tightly sealed.
- 40. State any one condition needed for eggs to hatch into chicks.

SECTION: B

41. The diagram below shows an item used at home, study it and answer the questions that follow.



(a) Name the item.

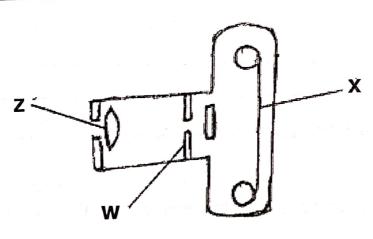
	(b)	Give one use of the item above.
	(c)	How is part Z designed to prevent burns?
	(d)	State one factor that makes some part of air to pass through holes X and the other through holes Y .
42.	(a)	Name the body condition treated by using Oral Rehydration Solution.
	(b)	State one use of each of the following components of oral rehydration solution. (i) sugar (ii) water
	(c)	Give one practice that helps to produce clean and safe oral rehydration solution.
43.	(a)	State any one reason why babies are more vulnerable to illness than adults.
<i>y</i>	(b) inst	Apart from vaccination, give two other ways of protecting the baby
		illness.
		(i)
	(c)	Concellist the balance and additional

The piece of information was got from a farm book of a certain cattle 44. farmer. Study it and answer the questions that follow.

Activity	Date
Vaccination	01/06/2021
Insemination	10/06/2021
Dipping	25/06/2021

(a)) What name is given to the information shown above?		
(b)	In which month was the information written?		
(c)	How is the date of insemination important to the farmer?		
(d)	State any one pest control activity missing in the information.		

The diagram below shows a lens camera. Study it and answer the 45. questions that follow.



(d)

(i)	W	 and a	erek oa			-
(ii)	Z				,	<u></u>

	(D)	which part of the eye has the same function as part X on the diagram
	(c)	State any one characteristic of images formed at X.
46.	. (a)	(i)
	(b)	(ii) Give two advantages of using natural fertilizers over the artificial ones. (i) (ii)
47.	(a)	
	(b)	Give one way how each of the animals below differ from other mammals (i) Duck billed platypus
		(ii) Kangaroo
48.	(a)	Apart from rainfall, give one other natural source of water.
	(b)	Mention any two components of the environment that help in rain formation. (i)
	(c)	How is rain water similar to distilled water?

49.	Mat	tch the organisms in	list A with their mode of reproduction in list
	<u>B.</u>		
		Α	В
		Birds	budding
dian.		Bacteria	seeds
		Yeast	laying eggs
		Conifers	binary fission
	(i)		
	(ii)		
	(iii)		
	(iv)	Conifers:	
50.	(a)		the muscular – skeletal system formed by calcium.
		= -	
		(ii)	
	(b)	Name the type of vita	amins that serves the same function as calcium in
		the body.	
	(c)	State any one effect of	of calcium deficiency in the human body.
51.	(a)	Apart from proper dry	ring, give two other ways of keeping stored seeds
		safe.	
		(i)	
		(ii)	MULTIN WORK DATE OF THE STATE OF THE
	(b)		ng keep stored seeds safe?
	(c)	How is a granary desi	gned to keep stored crops free from rodents?
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52.	(a)	Apart from a young farmers club, give one other science oriented club
		that can be formed at school

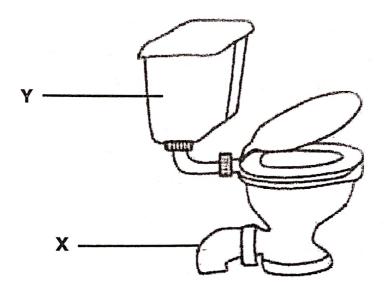
(b)	Mention any two projects that can be carried out by the young farmers
	club

(i) _____

(ii) _____

(c) State one benefit of young farmers club to the school children.

53. The diagram below shows a type of latrine. Study it and answer the questions that follow.



- (a) Name the type of latrine shown above.
- (b) Give one use of each of the following parts;

(i) X _____

(ii) Y _____

- (c) Give one way of keeping the above latrine clean after use.
- 54. The table below shows parts of the human ear and their functions.

 Complete it by filling in the missing information.

	Part	Functions
(i)		Collects sound waves
(ii)	Ear drum	
(iii)		Converts sound vibration into nervous impulses
(iv)	Semi-circular canals	

- 55. (a) State the freezing point of water in the Fahrenhiet scale.
 - (b) Convert 68°F to °C. (3marks)

END