

# MBARARA ARCHDIOCESE

## PRE-PRIMARY LEAVING EXAMINATION 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:

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 – 10		
11 – 20		
21 – 30		
31 – 40		
41 – 43		
44 – 46		
47 – 49		
50 – 52		
53 – 55		
<b>TOTAL</b>		

**SECTION A: 40 MARKS**

Questions 1 to 40 carry one mark each

1. Name the main source of food in the environment.  
.....
2. Which condition of germination is in gaseous state of matter?  
.....
3. What effect can direct sun rays into the hive cause to bees?  
.....
4. How does a microscope help a medical doctor to see bacteria in blood?  
.....
5. In which **one** way are earthworms important to crop farmers?  
.....
6. Why does clay soil become waterlogged when it rains?  
.....
7. Name the force that enables Aguti to pull a jerrycan full of water from a surface well using her little finger.  
.....
8. How are the gills of a mushroom different those of a fish in terms of function?  
.....
9. Give **one** sign of a child who is malnourished.  
.....
10. In the space below, draw a lens used to correct short sightedness in humans.
11. State a reason why sound travels the fastest in solid state of matter.  
.....
12. What is the importance of brushing teeth up and down?  
.....
13. State **one** way energy from wood fuel can be saved.  
.....

14. Name the type of energy that takes place when plants shed their leaves during the dry season.

15. Give **one** way electricians protect themselves against electric shocks.

16. Why is it dangerous to make a person who has drunk paraffin vomit?

17. Name the vertebrate animal that protects itself by withdrawing into its shell.

The diagram below shows a garden tool. Use it to answer questions 18 and 19.



18. Name the garden tool drawn above.

19. State any **one** use of the garden tool drawn above.

20. Which exotic breed of goats is reared for mohair?

21. How is the streamlined body shape of a bird useful to it during flight?

22. What term is used to mean the number of times a machine simplifies work?

23. Give **one** example of a vegetative method of propagation.

24. How does low humidity affect the rate of transpiration?

25. State **one** condition which may force a baby to be bottle fed.

26. Cite an example in the environment one may use to describe that light travels faster than sound.

The diagram below shows one of the types of incubation in poultry. Use it to answer questions 27 and 28.



27. Name the type of incubation shown in the diagram above.

28. State **one** disadvantage of the type of incubation shown in the diagram.

29. Give **one** activity carried out by a health club.

30. Why does a red car appear red?

31. State **one** characteristic common to tuber crop pests.

32. Why does a person doing a vigorous exercise breathe faster?

33. Give **one** reason why tubal ligation method of family planning is not recommended for women who have never had children.

34. Mention **one** skin disease which may result from failure to maintain personal hygiene.

35. How does the sun contribute to rainfall formation?

36. Why does a person with tapeworm infection feel hungry most of the time?

37. What advice can you give to a rabbit keeper to prevent his rabbits from burrowing?

Use the diagram to answer questions 38 and 39.





38. To which class of levers does the simple machine above belong?

39. Use letter "P" to indicate the pivot on the above machine.

40. What harmful effect can polythene bags cause on soil?

### SECTION B: 60 MARKS

Questions 41 to 55 carry four marks each

41. (a) What term is used to mean the immediate care given to a person who has just had an accident?

(b) Give **two** reasons why a person who has just had an accident needs immediate care.

(i) .....

(ii) .....

(c) State **one** effect of accidents to the body.

42. Use the plants in the table below to answer the questions that follow.

Mosses	Pod	Beans	Ferns
--------	-----	-------	-------

(a) Which two plants can be grouped together?

(b) Give a reason for your grouping.

(c) State **one** characteristic common to all plants in the above table.

(d) How do plants help to purify air in the environment?

43. (a) Write **two** human activities that can cause change in the environment.

(i) .....

(ii) .....

(b) Cite any **two** ways of managing changes in the environment.

(i) .....

(ii) .....

44. (a) Mention **one** place where bacteria breed from.

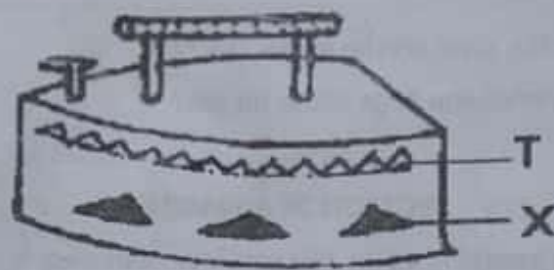
(b) State **one** condition that favours the breeding of bacteria.

(c) Give **two** ways the dangers caused by bacteria can be controlled.

(i) .....

(ii) .....

45. The diagram below is of an iron box. Study it carefully and use it to answer the questions that follow.



- Name the commonest fuel used in the above iron box.  
.....
- Which part on the human house serves a similar function as the holes marked **T** on the iron box?  
.....
- Write **one** use of the holes labelled **X** on the iron box.  
.....
- How does the continuous use of the iron box by communities affect the environment?  
.....

- 46.(a) What do we call the practice of growing crops and trees together in the same garden?

(b) In which **three** ways do crops benefit from the trees grown with them in the same garden?

- .....
- .....
- .....

- 47.(a) Give **two** ways in which insect vectors spread disease germs.

- .....
- .....

(b) Identify the insect vector that breeds in fast flowing water.

(c) How does the pouring of oil in stagnant water kill mosquito larva?

48. Match the blood vessels in list **A** with their function in list **B** correctly.

LIST A	LIST B
(i) Pulmonary vein	a) carries blood from all body parts to the heart.
(ii) Pulmonary artery	b) carries blood from the heart to all body parts.
(iii) Vena cava	c) carries blood from the lungs back to the heart.
(iv) Aorta	d) carries blood from the heart to the lungs.

- (i) .....
- (ii) .....
- (iii) .....
- (iv) .....

49.(a) Write any **two** energy resources from animals.

- (i) .....
- (ii) .....

(b) In which **two** ways can animals be conserved?

- (i) .....
- (ii) .....

50. The diagram below shows points of immunization on a baby's body. Use it to answer the questions that follow.



(a) Name the childhood immunisable disease whose vaccine is administered at points:

(i) **W** .....

(ii) **X** .....

(b) Which vaccine is administered at point labelled **V**?

(c) How is the vaccine at point **Y** administered?

51.(a) Write **two** examples of flightless birds.

(i) .....

(ii) .....

(b) Give **one** advantage of birds in the environment.

(c) In which one way can birds be a disadvantage in the environment?

52.(a) Give **one** example of each of the following joints:

(i) Hinge joint .....

(ii) Ball and socket joint .....

(iii) Pivot joint .....

(iv) Gliding joint .....



53.(a) Mention **two** examples of milk products.

(i) .....

(ii) .....

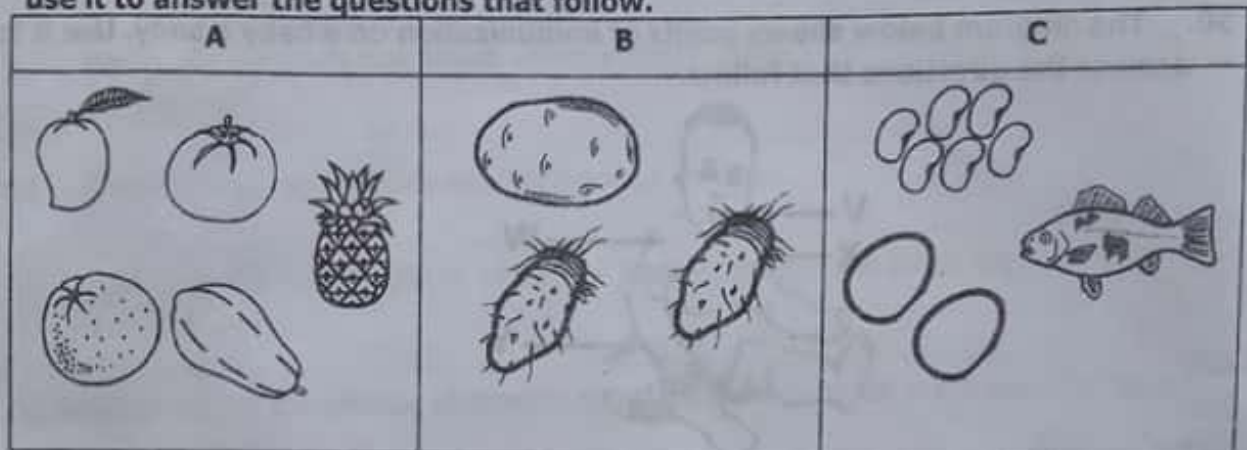
(b) Name the equipment used to test for mastitis in milk.

.....

(c) Why do some local farmers in the village wash the teats and udders of cows with warm water before milking?

.....

54. Below is a diagram showing different kinds of foods. Study it carefully and use it to answer the questions that follow.



(a) Name the class of food represented by foods in **B**.

.....

(b) What deficiency disease is one likely to suffer from due to lack of foods in:

(i) **A** .....

(ii) **B** .....

(c) Which letter shows foods that help in proper healing of wounds?

.....

55.(a) Where in the human digestive system do the following processes take place?

(i) absorption of digested food?

.....

(ii) absorption of water

.....

(b) What do we call the chemical compounds that speed up food digestion?

.....

(c) State **one** way of caring for the digestive system.

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END

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