



# MBARARA ARCHDIOCESE

## PRE-MOCK EXAMINATION 2024

### INTEGRATED SCIENCE

*Time allowed: 2 hours 15 minutes*

Index No:

School EMIS						Personal No.		

Candidate's name : .....

Candidate's signature: .....

School Name : .....

Parish : .....

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

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 substance that can exist in all the three states of matter.

- .....  
2. Which component of air supports germination?

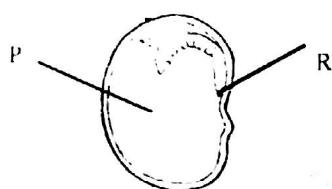
- .....  
3. Give one reason why it is important to brush teeth every after meal.

- .....  
4. How does the burning of rubbish help in the control of common diseases at home?

- .....  
5. Which organ helps to regulate the human body temperature?

- .....  
6. Name the vector that spreads scabies.

***The diagram below is of a bean seed. Study it correctly and use it to answer questions 7 and 8.***



7. Name the part marked P

- .....  
8. How useful is part marked R during germination?

- .....  
9. Which property of a magnet helps a pilot to locate places?

- .....  
10. Identify the blood vessel that carries blood from the lungs back to the heart.

- .....  
11. How can a hutch be constructed to ensure that rabbits do not dig burrows?

- .....  
12. State the function of a switch in an electric circuit.

- .....  
13. Why do butterflies lay their eggs on leaves?

14. How is a pitch of sound different from volume of sound?

.....

15. Name the garden tool drawn below.



16. Give one exotic breed of goat kept at home.

.....

17. How does the use of bio gas in homes help to conserve the environment?

.....

18. Name the mineral lost during diarrhoea.

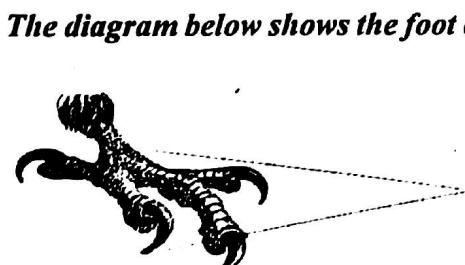
.....

19. Give one reason why electric wires are loosely fixed on poles.

.....

20. How best can you as a P.7 child prevent contracting HIV/AIDs?

.....



21. Name the group of bird with the above kind of foot.

.....

22. How useful is part marked X to the group of bird mentioned above?

.....

23. Give one way in which plants benefit from animals.

.....

24. Why is it not necessary to put out petrol fire using water?

.....

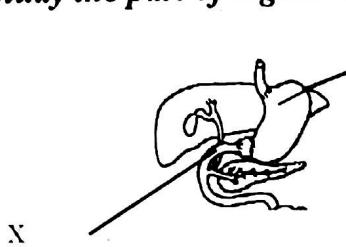
25. State the use of sand soil to a cook at home.

.....

26. To which class of lever does a pair of scissors belong?

.....

**Study the part of digestive system below and use it to answer questions 27 and 28.**



27. Name the part marked X.

28. What happens to food in part marked Y during digestion?

29. In which way is burning similar to rusting?

30. State any one cause of dehydration.

31. Give one reason why dogs pant during hot days.

32. How useful are stretchers when giving first aid?

33. State one factor considered when sorting clothes for washing.

34. Why are hard papers and leaves should not be used to clean yourself while using a toilet?

35. What happens to blood while it passes through the liver?

36. State one artificial permanent method of family planning.

37. What type of immunity does a baby after suffering from a disease like measles?

38. Give one way of promoting oral health.

39. How do paw-paw plants avoid self-pollination?

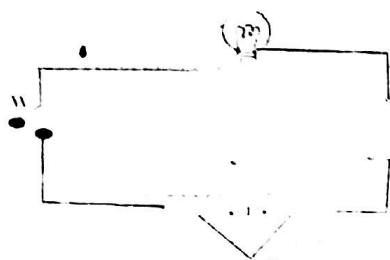
40. Give a reason why hard material should be put in the mouth of a convulsing victim.

## **SECTION B**

**Questions 41 to 55 carry four marks each.**

**41. Study the diagram of an electric circuit below and use it to answer questions that follow.**

Name the parts marked X and P.



(i) X.....

(ii) P.....

b. What will happen to part marked Y when part marked W is closed?

.....

c. Give a reason to support your answer in (b) above.

.....

**42. Briefly explain the term soil erosion.**

.....

b. State two causes of soil erosion in an area.

(i) .....

(ii) .....

c. How does mulching help to control soil erosion?

.....

**43. Watata mixed salt and water in a cup.**

a. Name the mixture that was formed.

.....

b. Which of the above components of a mixture was;

i. a solvent? .....

ii. a solute? .....

c. State the method that Watata would use to recover salt from water.

.....

**44. The diagrams below are of blood vessels. Study them to answer questions that follow.**



Name the blood vessels marked;

A.....

B.....

b. State two structural differences between blood vessel A and B.

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

45.a. What is sex deviation?

.....  
b. Give any two examples of sex deviation.

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

c. How can you as a P7 child safe guard yourself from sex deviation?

46. Complete the table below carefully.

Disease	Vaccine	Site
Polio	Polio vaccine	
Tuberculosis		Right upper arm.
Diphtheria	Measles vaccine.	Left upper arm. Left upper thigh

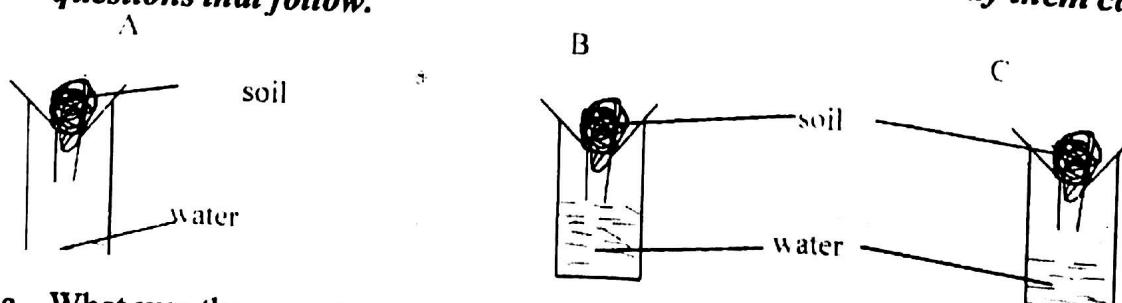
47.a.) Write down any two examples of bacterial Sexually Transmitted Diseases (STDs) that can spread among the youths.

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

b). Mention any two ways in which Sexually Transmitted Diseases (STDs) can spread among the youths in the society.

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

48. A P.5 pupil carried out the experiments as shown below. Study them carefully and answer questions that follow.



a. What was the experiment about?

b. Name the type of soil marked B.

a. Which type of soil has the highest water retention?

.....

b. Give any one way in which soil is formed.

.....

49.a.) Give one reason why water is regarded as a renewable resource.

.....

b.) Apart from water, give two other examples of renewable resources.

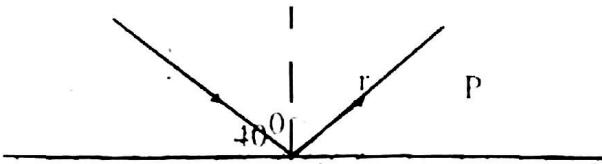
(i) .....

(ii) .....

c.) How does the use of bio gas conserve the environment?

.....

50. *The diagram below shows a ray of light striking the mirror. Study it and answer the questions that follow.*



a) Name the ray marked P.

.....

b) Which property of light is illustrated above.

.....

c) Calculate the size of angle r. (2 marks)

51.a.) State the difference between mushroom and yeast in terms of reproduction.

.....

b.) Apart from mushroom and yeast give other one example of useful fungus in the environment.

.....

c.) State any two ways in which yeast is important to people.

i) .....

ii) .....

52.a) Give any two factors that affect the weight of an object.

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

b.) State any two differences between weight and mass.

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

53. *Below are different organisms in a food chain. Use them to answer questions that follow.*

Man              plant              Rabbit              Bacteria

a) Which organism shown above is;

- i. a producer .....
- ii. a primary consumer.....

b) What role is played by bacteria in a food chain?

- .....
- c) Identify the main source of energy for the producer in the food chain.

54.a) Apart from carbohydrates, mention other class of food that gives body energy.

- .....
- b.) Give two signs of scurvy.

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

c.) How can you advise a mother whose child is suffering from kwashiorkor?

55.a) State any two breeds of rabbits kept in Uganda.

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

b) Which disease of rabbits affects humans?

- .....
- c) Give one reason why most farmers prefer keeping rabbits to other animals.

**END**