



ASSOCIATION OF CATHOLIC EDUCATION INSTITUTIONS (ACEI) - MASAKA DIOCESE

PRE - PLE EXAMINATION- 2023

INTEGRATED SCIENCE

Time allowed: 2 hours 15 minutes

School EMIS.						Personal No.		

Candidate's Name : _____
Candidate's Signature : _____
School Name : _____
District Name : _____

Read the following instructions carefully.

1. This 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 will lead to loss of marks.
7. Any handwriting that cannot easily be 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.	MARKS	INITIALS
1 - 10		
11-20		
21-30		
31-40		
41-43		
44-46		
47-49		
50-52		
53-55		
TOTAL		

Turn Over

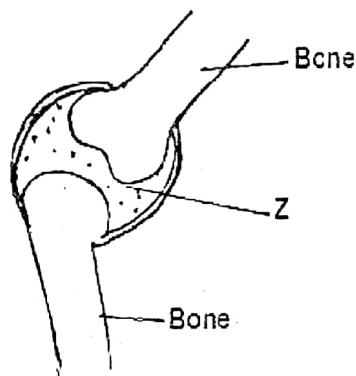
SECTION: A

1. Which organ in the human body stores information?

2. Give the type of feeds given to layers at six weeks.

3. How are houseflies in a VIP latrine able to reach a screen?

The diagram below shows a joint in the human body. Use it to answer questions 4 and 5.



4. Name the type of movable joint shown above.

5. How does fluid Z reduce friction?

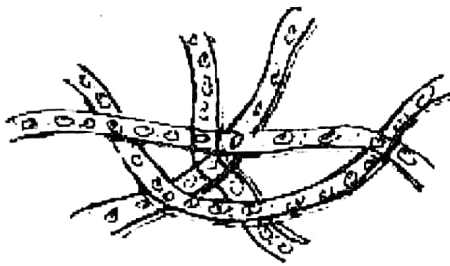
6. State any one way of managing sunny weather.

7. **"ALWAYS MOVE IN GROUPS"**. In which way is this message useful to a primary school going child?

8. Mention any one danger of bacteria to man.

9. Name the sexual deviant behaviour between James and his sister.
-
10. Give any one physical change involved in a water cycle.
-
11. Which cattle product is preserved using salt?
-
12. Why is bush burning a bad farming practice?
-
13. State the property of a magnet that helps to reset a six's thermometer.
-

Use the diagram below to answer questions 14 and 15.



14. Name the amphibian which lays eggs shown.
-
15. How are the above eggs protected from predators?
-
16. State any one cause of food shortage in the community.
-
17. How do primary seven pupils manage biological changes on their bodies?
-
18. Give one way school going children can promote immunization.
-

19. Name any one device that reproduces sound stored by notation.

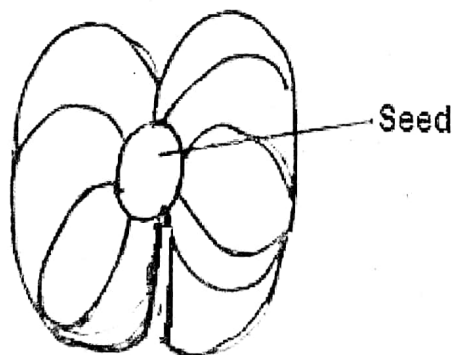
20. Mention one root crop pest that lives in the soil.

21. Why should metals be mixed up together?

22. Give one reason for giving plenty of milk to a casualty who has taken herbicides.

23. State one advantage of planting short grass in the school compound.

The diagram below shows a method of seed dispersal. Use it carefully to answer questions 24 and 25.



24. How is the above seed adapted to wind dispersal?

25. State any one disadvantage of seed dispersal to a crop farmer.

26. A machine raised a load of 48N using an effort of 16N, how many times did the machine ease work?

27. Name any one mineral salt that hardens a child's teeth.

28. Give any one cause of common sicknesses in a home.

29. Identify one effect of drought to a crop farmer.

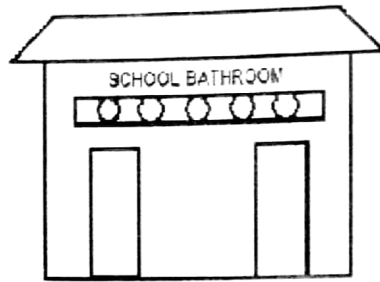
30. Which breed of rabbits supports the textile industry?

31. How do termites benefit the soil?

32. Why do electricians wear protective rubber gloves when installing electricity?

33. Name any one disease vector which undergoes complete metamorphosis.

Use the sanitary structure below to answer questions 34 and 35.



34. Which element of PHC is promoted using the above structure?

35. Give one way of maintaining the above structure.

36. Mention one bad practice that can affect the skin.

37. How do nimbus clouds benefit an animal farmer?

38. Give one reason why a pen is matter?

39. Why are herbivorous animals regarded as primary consumers?

40. Write one drug of dependence.

SECTION: B

41. (a) Give two types of resources in our environment.

(i) _____

(ii) _____

(b) Name any one energy resource obtained from water.

- (c) Identify any one way of conserving energy resources from fossil fuels.

42. Match the diseases below to their signs.

Disease	Sign
AIDS	Runny nose
COVID - 19	Vomiting
Cholera	Emaciation
Measles	Sneezing

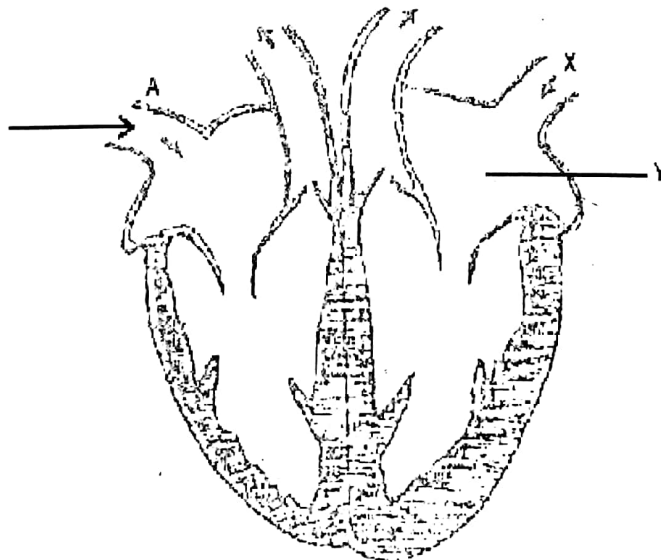
(a) AIDS

(b) COVID- 19

(c) Cholera

(d) Measles

43. The diagram below shows the human heart. Use it to answer questions about it.



(a) Name the part labeled Y.

(b) How is blood vessel **A** similar to blood vessel **X** in terms of function?

(c) Identify the blood vessel that supplies the above organ with oxygenated blood.

(d) Name one disease of the heart caused by smoking.

44. Use the table of invertebrates below to answer questions that follow.

Group A	Group B	Group C
Spiders	Housefly	Crabs
Ticks	Cockroach	Lobster
Scorpions	Tsetse fly	Sandhopper

(a) How are the above invertebrates similar?

(b) Which of the above invertebrate does not lay eggs?

(c) In which way is the breathing of a spider different from that of a crab?

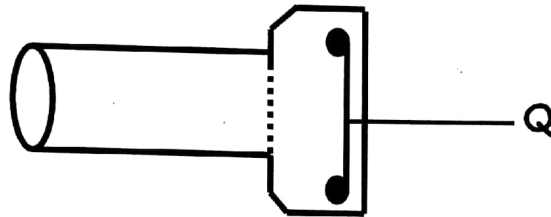
(d) Why are organisms in group **B** regarded as vectors?

45. (a) What type of change is fruiting in plants?

(b) How are the following chemical changes important in the environment?

- (i) Burning _____
- (ii) Rusting _____
- (iii) Decomposition _____

46. Use the diagram of an optical instrument below to answer questions.



(a) Name the optical instrument represented by the above diagram.

(b) State the function of the part marked Q.

(c) Which form of energy enables the above instrument to work?

(d) Using letter X, show the part that works like the eyelid of the human eye.

47. (a) Give two breeds of sheep kept for mutton production.

(i) _____

(ii) _____

(b) Why is shearing commonly done in the dry season by sheep farmers?

(d) Give one way of controlling internal parasites in sheep.

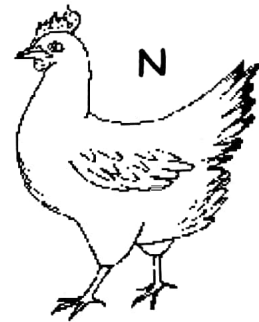
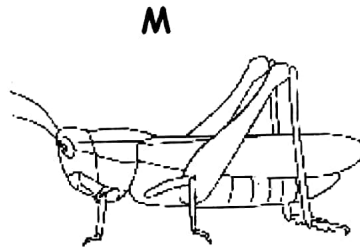
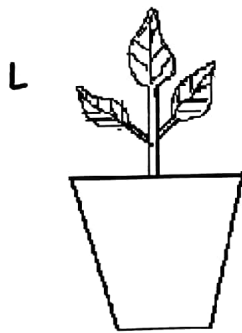
48. (a) What is a health survey?

(b) Give two pieces of information collected on a health survey.

i) _____ ii) _____

(c) Why is demography important in a given country?

49. Study the diagram of organisms in the environment and answer questions about it.



(a) Using arrows, show the flow of energy in the feeding relation-ship above.

(b) If organism M is removed from the feeding relationship above, what would happen to N?

(c) Which of the organisms above is?

(i) producer _____

(ii) secondary consumer _____

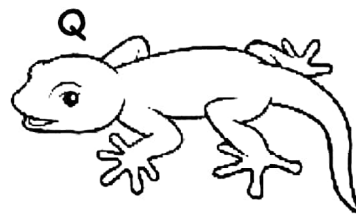
50. (a) Why are babies weaned at six months?

- (b) Give a reason why breast feeding mothers should be given plenty of fluids.
- _____
- (c) State one disadvantage of bottle feeding.
- _____
- (d) Write one condition that may lead a baby to depend totally on bottle feeding.
- _____

51. Mention the harmful metabolic wastes removed by the following organs from the body.

- (a) Lungs _____
- (b) Kidney _____
- (c) Skin _____
- (d) Liver _____

52. Below is a diagram showing two vertebrate animals, use it to answer questions that follow.



(a) To which class of vertebrates do animals P and Q belong?

(i) P _____

(ii) Q _____

(b) State two differences between animals P and Q.

(i) _____

(ii) _____

53. (a) Mention two principles of Primary Health Care.

(i) _____

(ii) _____

(b) How are the following elements of PHC promoted?

(i) Family planning

(ii) Food and nutrition

54. The temperature of a child increased by 3°C from the normal.

(a) What immediate help can be given to such a child?

(b) Express the new temperature in $^{\circ}\text{F}$. (3marks)

55. (a) Give two situations at home where filtration is used.

(i) _____

(ii) _____

(b) Mention two chemicals commonly used to treat water.

(i) _____

(ii) _____

END

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