

PRE-PLE EXAMINATION

2024

INTEGRATED SCIENCE (SET 5)

Time allowed: 2 hours 15 minutes

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Candidate's Name:

Candidate's Signature:

Date:

FOR EXAMINERS' USE ONLY

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** ball point pen or ink. Diagrams should be drawn in pencil.
6. Unnecessary alteration of work may lead to **loss** of marks.
7. Any handwriting that cannot easily be read may lead to loss of marks.
8. Do not fill any thing in the boxes. They are for examiners' use.

FOR EXAMINERS' USE ONLY		
Qn No.	MARKS	SIGN.
1 – 10		
11-20		
21-30		
31- 40		
41 - 43		
44 - 46		
47 - 49		
50 - 52		
53 – 55		
TOTAL		

Turn over

SECTION A: 40 MARKS

1. What is another name for a worker bee in a bee hive?

.....

2. Why is it important to wash hands with not only water but also soap after visiting a latrine?

.....

3. Mention any **one** cause of short circuits.

.....

4. Describe **one** use of bacteria that are commonly found in dead animals.

.....

5. Why is it not advisable to pour insecticides or acidic substances in latrines?

.....

6. How can the government control spread of a cattle disease once it breaks up in an area?

.....

7. Describe the importance of water in our diet.

.....

8. Which chemical in tobacco readily combines with hemoglobin?

.....

9. Why do clothes dry faster on a dry and windy day than on a cold day?

.....

10. How long is the gestation period of a ewe?

.....

Turn over

11. Name the name chemical burning of food in the food.

.....

12. Why is there more carbon dioxide at night than during day?

.....

13. How is intercropping important to a farmer who practices it?

.....

14. Explain why an earthworm is regarded as an invertebrate.

.....

15. Name any other way the body can lose heat other than through sweating.

.....

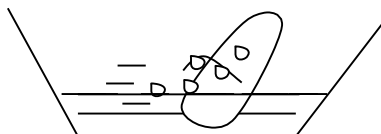
16. What do you understand by the term adolescence?

.....

17. What is the use of a beak to a bird?

.....

18. Identify the property of air shown in the diagram.



.....

19. What simple method can be used to distinguish a bad egg from a good one?

.....

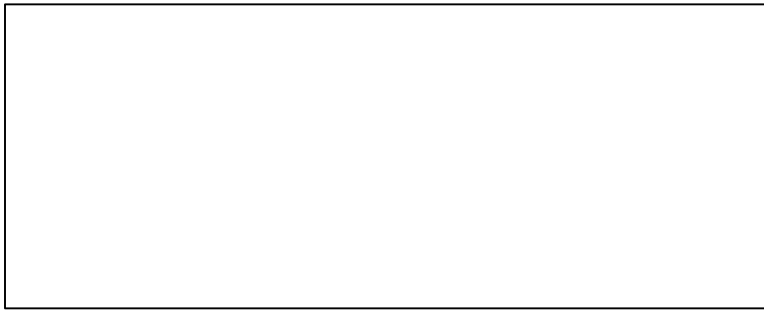
20. Why do crawling children usually suffer from diarrhea?

.....

21. State **one** importance of vitamins to the body.

.....

22. Draw any **one** percussion instrument in the space below.



23. What environmental hazard may result from poor disposal of polythene papers?

.....

24. Miria left her bicycle under the hot sun, so its tyre burst. What does this tell us about air?

.....

25. Give the importance of breast feeding to mothers.

.....

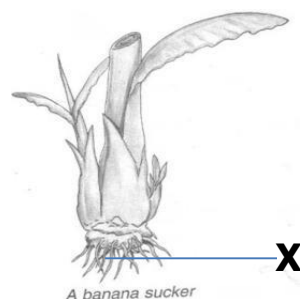
26. Explain what happens to the lungs in the human body when one breathes in.

.....

27. Apart from calcium, what other mineral is used for the proper growth of bones and teeth?

.....

28. The diagram below is of a banana plant. Use it to answer questions that follow.



Name the type of roots marked with letter **X**.

.....

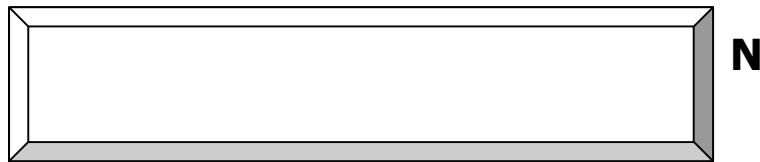
29. Describe any **one** way in which people can manage sunny weather in their environment.

.....

30. Which part of the skeleton protects the reproductive organs?

.....

The diagram below shows bar magnets. Study it to answer the questions that follow.



F

31. Name pole **F**.

.....

32. State **one** way people may contaminate food at home.

.....

33. Where does gaseous exchange take place in human beings?

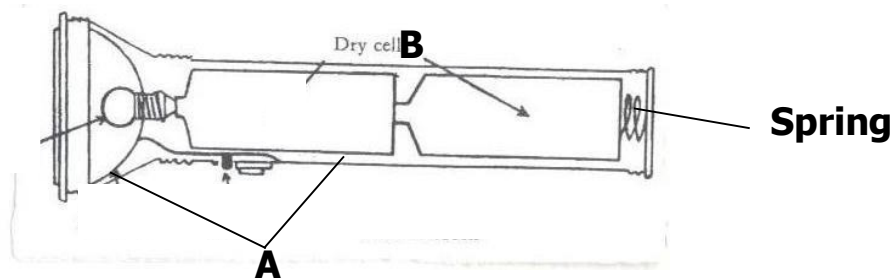
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34. What is the difference between a sprain and strain?

.....

.....

35. The diagram below is of a torch. Use it to answer questions that follow.



What is the function of the spring in the torch above?

.....

36. State **one** importance of teeth during digestion.

.....

37. Ryan was playing with a ball made of copper passing it through a ring. He decided to heat it, but he found he could no longer pass it through the ring. Explain what had happened?

.....

38. How can dehydration be managed in children below the age of five years.

.....

39. Name any **one** immunisable disease caused by bacteria.

.....

40. Identify **one** effect of the rotation of the earth.

.....

SECTION B: 60 MARKS

41. Match the following types of joints with their locations in the body correctly.

Types of joints

Gliding joints

Pivot joints

Ball and socket joints

Hinge joints

Location in the body

Elbow and knee

Wrist and ankle

the neck

Shoulder and hips

i) Gliding joints ii) Pivot joints

iii) Ball and socket joints iv) Hinge joints

42. a) Which part of the following crops can be used for producing alcohol?

i) Millet

ii) Cassava

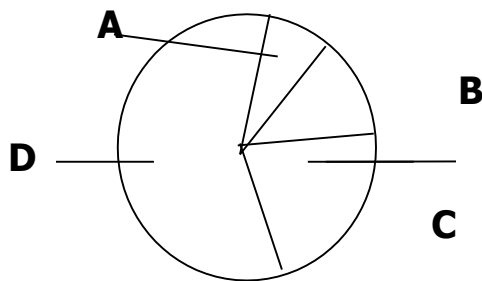
b) Name the fungus which is used in the production of alcohol.

.....

c) Apart from waragi, give any other example of an alcoholic drink.

.....

43. **The diagram shows the composition of air. Use it to answer the questions that follow.**



a) Name the gases marked with letters **B** and **D**.

B

D

b) Identify any **one** process that involves use of gas **C**.

.....

c) State any **one** way in which gas marked **A** is important to people.

.....

44.a) What is paddock system of grazing?

.....

b) Identify any **one** other rotational system of grazing apart from the above.

.....

c) Mention any **two** advantages of zero of grazing.

(i)

(ii)

45. a) Write any **one** example of each of the following components of a solution.

i) Solute

ii) Solvent

b) How can you separate a mixture of beans and stones?

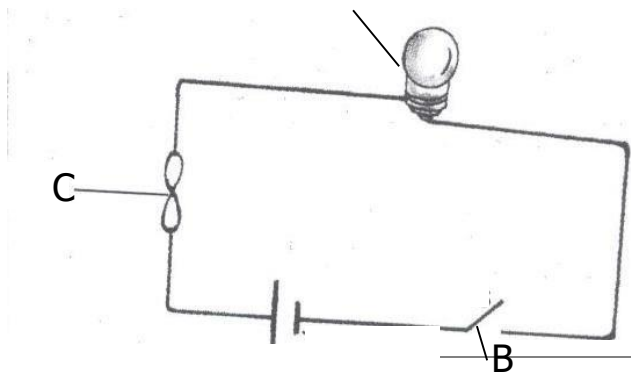
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c) Give a method of separating mixtures used when getting juice from passion fruit.

.....

46. The diagram below is of a simple circuit. Use it to answer the questions that follow.

A



a) Name the part labeled **C**.

.....

b) What is the function of the part named in (a) above?

.....

c) What is the similarity function between part **C** and **B**?

.....

d) Describe **one** energy change that takes place at **A** when the circuit is completed.

.....

47. a) State any **two** roles children play in a home.

(i)

(ii)

b) Identify any **two** forms of child abuse in our society.

(i)

(ii)

48.a) Name the second stage of the life cycle of a locust.

.....

b) State any **two** diseases spread by cockroaches to people.

.....

c) How can you help family members to reduce cockroach infestation in a home?

.....

49. Use the list of items below to answer questions that follow.

Goat, Wind, Sisal, Petroleum.

a) Name any **two** items from the list that are renewable resources.

(i) (ii)

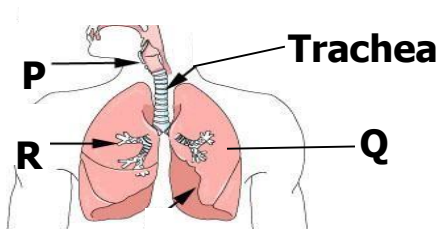
b) Identify **one** item that is a fossil fuel.

.....

c) Give **one** way people can use the resource that starts with letter "**S**" in the list above.

.....

50. Use the diagram below to answer the questions that follow.



a) Name the parts marked with letter **P** and **Q**.

P

Q

b) How is part marked **R** adapted to its function?

.....

c) Identify **one** immunisable disease of the system above.

.....

51. a) Distinguish between a pest and a parasite.

.....

.....

b) Mention any **two** pests that destroy maize in the garden.

(i)

(ii)

c) Describe any **one** way farmers control pests on the garden.

.....

52.a) What name is given to a mixture of **two** or more metals?

.....

b) Give **one** example of a common mixture of metals?

.....

c) Why do people use aluminum to make cooking utensils instead of silver that is a better conductor of heat?

.....

d) By what process does heat move through metallic utensils?

.....

53.a) What is germination?

.....

b) Give any **two** conditions necessary for germination to occur.

(i)

(ii)

c) What type of germination does a millet grain undergo?

.....

54. a) What germ causes malaria?

.....

b) Why does the government of Uganda periodically give out free mosquito nets instead of selling them to people?

.....

c) Why would the control of malaria be more difficult than control of AIDS?

.....

d) Name the world day concerned with control of diseases.

.....

55.a) Explain what a health parade is.

.....

b) Describe any **two** importance of health parades in schools.

(i).....

(ii)

c) Give any **one** problem that may be faced by children in a school that does not hold health parades.

.....

