



# EXCEL EXAMINATIONS

## BEGINNING OF TERM II, 2024

### P.7 INTEGRATED SCIENCE

TIME ALLOWED: 2HRS 15 MINUTES

INDEX NO.

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NAME \_\_\_\_\_ SIGNATURE \_\_\_\_\_

SCHOOL \_\_\_\_\_ STREAM \_\_\_\_\_

**DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.**

**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 in Section **A** and Section **B**. Answers must be written in the spaces provided.
5. All answers must be written using a blue or black ball-point pen or ink. Only diagrams may be done 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.

### FOR EXAMINER'S USE ONLY

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MARKS								
SIGN								



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## SECTION A (40 MARKS)

1. Name the outer part of a bean seed.
2. Mention any **one** way how sunlight is a resource to plants.
3. Apart from being a good conductor of heat, why is aluminium commonly used in making cooking saucepans?
4. State any **one** way a school child can benefit from abstaining from sex.
5. Mention any **one** cause of choking.

The diagram below shows administration of vaccine. Use it to answer questions 6 - 7.



6. Which vaccine is administered on a site marked **M**.
7. Which other vaccine is administered at the same time as vaccine named (6) above?
8. What type of skeleton do tortoises have?
9. What name is given to muscles of the heart?
10. State any **one** danger of sharing sharp objects.
11. Mention any **one** disadvantage of herding over zero grazing.



12. Give any **one** way how drying clothes on hot sunshine may help in the spread of diseases.
13. Why can't a piece of paper be attracted by a magnet?
14. State any **one** reason why a fainting victim should be put in an open and congestion free place?
15. Write down any **one** way of conserving forests.
16. Mention any **one** non-metallic substance that conducts electricity very well.
17. State any **one** way of preserving heat in a flask full of tea.
18. State any **one** role vultures play in keeping sanitation.
19. How can a person know the presence of salt in food?
20. By what process does a stone turn into soil?
21. How can electricity help in controlling air pollution?

The diagram below shows a message poster in a school compound. Use it to answer questions 22-23.

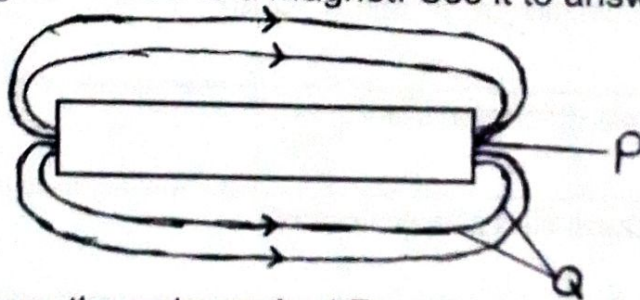
Wash your hands with  
soap after visiting latrine

22. Why should a school child follow the above message?
23. Where exactly in the school premises should this poster be placed?
24. What is formed when wood is burnt under limited supply of oxygen?



25. State any one way of controlling electrocution in homes.
26. Write down any one mineral salt that may be given to layers.
27. How is reproduction in fish similar to that of a bird?
28. Name the component of blood commonly affected by a malaria parasite.
29. How are ferns different from mushrooms?
30. Give one reason why a bee hive is not seated on the ground.
31. Name the best way of controlling deficiency diseases.
32. What type of joints are found in the skull?

The diagram below is a magnet. Use it to answer questions that follow



33. Name the pole marked P.
34. What do we call the forces of magnets shown by letter Q.?
35. How do cattle farmers control ecto parasites among livestock?
36. Give any **one** characteristic of mercury that helps doctors to read temperature on a thermometer glass tube.
37. State any **one** reason why preying animals have sharp canines?
38. Write any **one** way how food can get contaminated during the eating process.



Name the type of worms that can cause anaemia to people.

40. Why do most people prefer keeping pigs to cattle?

### SECTION B

41. The diagram below shows a join. Use it to answer questions that follow.



(a) Where on the human body do we find the above joint?

(b) What type of movable joint is shown on the diagram?

(c) Name the muscle labelled **K**.

(d) What happens to the muscle labelled **K** when the arm is stretched?

42(a) Name the mosquito that spreads the plasmodia?

(b) State any **one** danger of having mosquitoes in our homesteads.

(c) Write down any **two** ways of controlling the breeding of mosquitoes.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

43(a) What is a circuit?

(b) Write down any **two** factors that can stop the flow of current in a circuit.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

(c) State any **one** advantage of using wet cell.

44(a) Identifies **one** way of controlling:-

(i) Run off water in a compound



(ii) Overcrowding of plants in a garden

(b) State any **two** ways how proper use of soil helps to increase plant yields.

(i)

(ii)

45(a) What role do bees play in pollination of flowers?

(b) Mention any **two** characteristics of flowers that help them to be located by bees.

(i)

(ii)

(c) Apart from bees, which other insects pollinate flowers?

46(a) What are carnivores?

(b) Give any **one** way how carnivores locate food?

(c) State any **one** reason why most carnivores have soft pads on their feet.

(d) To which group of vertebrates do carnivores belong?

47(a) Write down any **two** sources of heat energy.

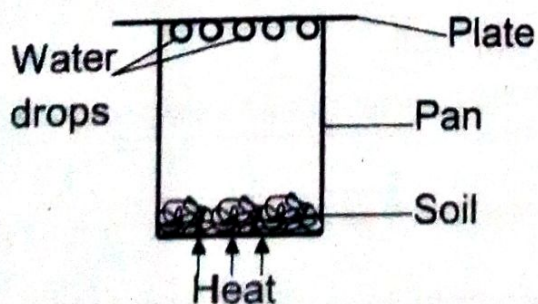
(i)

(ii)

(b) How does heat help to preserve food?

(c) State any **one** effect of heat on metals.

48. Below is an experiment about the soil. Use it to answer questions.





- (b) Name any one process that takes place when soil is heated.
- (c) By what process are water drops formed?
- (d) How does heat from the pan reach soil?

49(a) What type of fracture is the bone cracked inside the flesh?

- (b) Name the first aid equipment used to caring the fractured victim.
- (c) Why is the fractured part always supported by splints?
- (d) Apart from fractures, which other injury affects the bones.

50(a) Write down any **two** ways of reproducing sound

(i)

(ii)

(b) Write down any **two** devices that can reproduce sound.

(i)

(ii)

51(a) Name the first step in washing clothes.

(b) Give any **one** reason why most people use detergents in washing clothes.

(c) Write down any **two** ways of caring for clothes.

(i)

(ii)

52(a) Write **VIP** in full.

(b) What is the importance of a screen on a vent pipe?



(c) State any **two** advantages of a VIP latrine to an ordinary latrine.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

53(a) Name the element of PHC that promotes cleanliness in an environment.

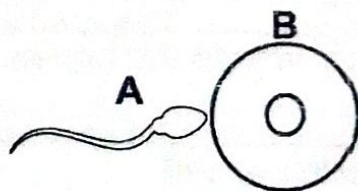
(b) Identify any **two** activities families can engage in to promote cleanliness of the environment.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

(c) How is a dirty environment a threat to human health?

54. The diagram below shows reproductive cells. Use them to answer questions.



(a) Name the reproductive cells marked **B**.

(b) Why does reproductive cell **A** have a tail?

(c) Which sex has reproductive cells marked **A**.

(d) What do we call the fusion of cells A and B forming zygote?

55(a) What is water pollution?

(b) State any **one** way how water gets polluted.

(c) Write down any **two** diseases got from playing in dirty water.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_