



## RAPHA EXAMINATIONS BOARD

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**PRIMARY SIX EXAMINATIONS 2024 (SET 8)**

**SCIENCE**

**Time allowed: 2 hours 15 minutes**

**Pupil's name:** .....

**Signature:** ..... **Date** .....

**School name:** .....

**District:** .....

### READ THE FOLLOWING INSTRUCTIONS CAREFULLY:

1. This paper has two sections **A** and **B**
2. All the working in both sections **A** and **B** should be shown in the spaces provided
3. All working must be done using blue or black ball point pen or fountain pen. Diagrams **MUST** be drawn in pencil
4. Unnecessary changes of work may lead to loss of marks
5. Any handwriting that cannot be easily read may lead to loss of marks
6. Do not fill in anything indicated for *examiners use only* and those inside the paper

#### For examiner's use only

SECTION	MARKS	INITIALS
SECTION A		
SECTION B		
TOTAL		

**Section A (40 Marks)**

1. Mention any **one** example of a flowering plant in the environment.

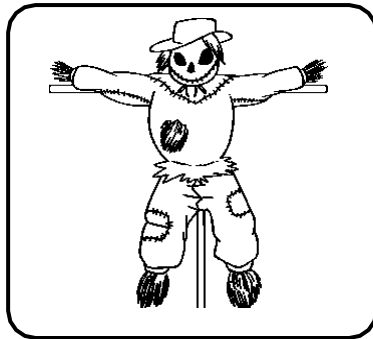
2. Give the meaning of the term a **resource**.

3. In which **one** way is **fungi** useful to man?

4. How are **canine teeth** important to carnivores?

5. Name the **reproductive part** of a flowering plant.

**Study the diagram below and answer question 6.**



6. How important is the structure above to a **crop farmer**?

7. Give the condition for **seed germination** that is used for respiration.

8. Which **food value** do we get from eating **stem tubers**?

9. Why are cattle grouped under **ruminants**?

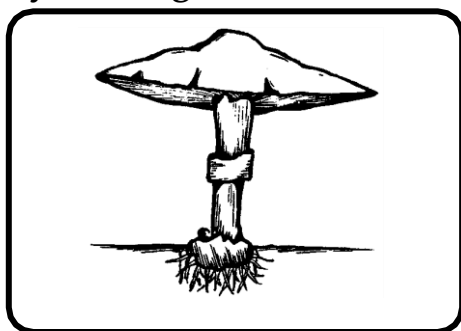
10. How do **bacteria** reproduce?

11. Give any **one** importance of wind to people.

12. Mention any **one** poultry disease that also affects **rabbits**.

- 
13. Which type of **metamorphosis** does a tsetse fly go through?
- 
14. How important are **hooks** on some seeds dispersed by animals?
- 
15. State any **one** way animals benefit from plants in the environment.
- 
16. Give any **one** importance of **wood** got from coniferous plants.
- 
17. Identify any **one** crop grown in your community.
- 
18. How is a **pouch** important to a **kangaroo**?
- 
19. Which part of **air** carries the **highest percentage** in the atmosphere?
- 
20. Give any **one** example of an item used to improve on the cleanliness of a place.
- 
21. How important is the **nitrogen fixing bacteria** to the soil?
- 
22. State any **one** reason chameleon **camouflage**.
- 
23. Write any **one** characteristic of **monocotyledonous plants**.
- 
24. Mention any **one** example of petroleum product.
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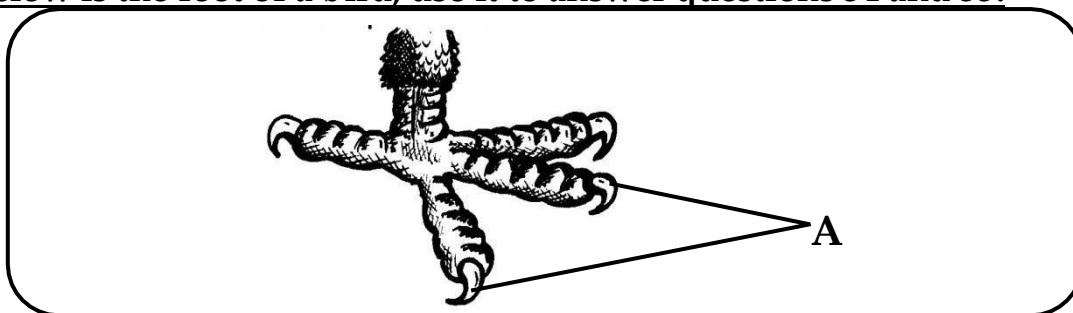
Study the diagram below and answer questions 25 and 26.



25. Name the diagram drawn above.
- 
26. Why is the diagram above not regarded to as a plant?
- 
-

27. Give any one importance of worms to the soil.
- 
28. Which food value does a person get from eating honey?
- 
29. Name the type of vitamin manufactured by the body when exposed to morning or late evening sunshine.
- 
30. How dangerous is salmonella typhi to human?
- 
31. Name the disease spread by fish water mollusks.
- 
32. Mention any one metallic mineral.
- 
33. Give any one way of caring for the garden tools.
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Below is the foot of a bird, use it to answer questions 34 and 35.



34. To which group of birds does the foot above belong?
- 
35. How is part marked A above important to the group of birds named in 34 above?
- 
36. State the importance of chlorophyll during photosynthesis
- 
37. Name the process through which rocks are broken down to form soil.
- 
38. Apart from mushrooms, mention any other example of fungi.
- 
39. Write any one example an alloy.
- 
40. How are scales important to reptiles?
- 

#### Section B (60 marks)

41. (a) Mention any one example of root tuber crops.
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(b) How are **rat guards** important to a crop farmer?

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(c) Write any **two** ways you can take care of tuber crops.

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

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

42. (a) Why is **bronze** regarded as an alloy?

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(b) Write any **one** way through which petroleum is useful to man.

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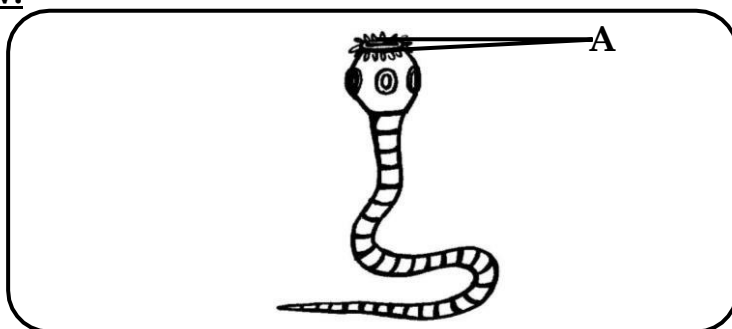
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(c) State any **two** ways water sources can be protected from contamination.

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

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

43. The diagram below shows an intestinal worm. Use it to answer the question that follow.



(a) Identify the **intestinal worm** drawn above.

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(b) How is **part marked A** useful to the intestinal worm above?

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(c) Give the **scientific name** to mean the head of the worm above.

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(d) What does the **intestinal worm** above feed on?

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44. (a) Mention any **one** place where bacteria can be found.

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(b) State any **two** characteristics of fungi.

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

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

(c) In which **one** way is **fungi** useful to **man**?

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45. (a) How are **bats** able to locate food and dodge obstacles at night?

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(b) Mention any **two** examples of insect eaters.

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

(c) How does a **porcupine** protect itself from enemies?

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46. (a) How are the following tuber crops propagated?

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

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

(b) Mention any **one** crop pest that affects tuber crops.

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(c) Why is **sugarcane** not regarded as a **stem tuber**?

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47. Use the table below to answer questions that follow.

Group A	Group B	Group C
kangaroo bat	eagle vulture	lizard geckoes

(a) State any **one** characteristic common in **group A** and **group B**.

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(b) How are organisms in **group A** different from those in **group B** and **C**?

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(c) Write any **one** adaptation of organisms in **B** to flight.

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48. (a) Name the group of **non-flowering plants** that reproduces by means of spores.

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(b) State any **one** difference between **dicotyledonous** plants and **monocotyledonous** plants.

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(c) Mention any **two** conditions necessary for seed germination to take place.

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

- (ii) \_\_\_\_\_
49. (a) Give any **two** importance of useful bacteria.
- (i) \_\_\_\_\_
- (ii) \_\_\_\_\_
- (b) State any **two** dangers of harmful bacteria.
- (i) \_\_\_\_\_
- (ii) \_\_\_\_\_
50. (a) Mention any **two** examples of amphibians.
- (i) \_\_\_\_\_ (ii) \_\_\_\_\_
- (b) What term is used to mean the **young ones of amphibians**?
- \_\_\_\_\_
- \_\_\_\_\_
- (c) State any **one** way amphibians are important.
- \_\_\_\_\_
- \_\_\_\_\_
51. (a) Name the **disease vector** that spreads **polio** to human beings.
- \_\_\_\_\_
- (b) Why are we supposed to boil water for drinking?
- \_\_\_\_\_
- \_\_\_\_\_
- (c) Mention any **two** diseases spread by a housefly.
- (i) \_\_\_\_\_ (ii) \_\_\_\_\_
52. (a) How are **root hairs** important to the plant?
- \_\_\_\_\_
- \_\_\_\_\_

(b) Name the plant system that develops from the plumule of a germinating seed.

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- \_\_\_\_\_
- (c) State any **two** importance of roots to plants.
- (i) \_\_\_\_\_
- (ii) \_\_\_\_\_
53. (a) State the meaning of the term **farm records**.
- \_\_\_\_\_
- \_\_\_\_\_
- (b) Mention any **one** example of farm record used on root crops.
- \_\_\_\_\_
- (c) State any **two** importance of keeping records on a farm.

- (i) \_\_\_\_\_  
(ii) \_\_\_\_\_

54. (a) Mention any **two** agents of seed dispersal.

- (i) \_\_\_\_\_ (ii) \_\_\_\_\_

(b) Write any **one** characteristic of seeds dispersal by wind.

\_\_\_\_\_

(c) How is **black jack** adapted for dispersal?

\_\_\_\_\_

55. Match the following correctly.

<u>Disease</u>	<u>Germ</u>
Typhoid	plasmodia
Cholera	mycobacteria
Tuberculosis	vibrio cholerae
Malaria	salmonella typhi
<b>Typhoid</b>	_____
<b>Cholera</b>	_____
<b>Tuberculosis</b>	_____
<b>Malaria</b>	_____