

MID-TERM I EXAMINATION 2019
PRIMARY FOUR
INTEGRATED SCIENCE

Time allowed: 2 hours 15 minutes

Name: _____

School: _____

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 only.

FOR EXAMINER'S USE ONLY

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		
TOTAL		

Turn over

SECTION A

1. Name one example of a domestic bird.

2. What is wind?

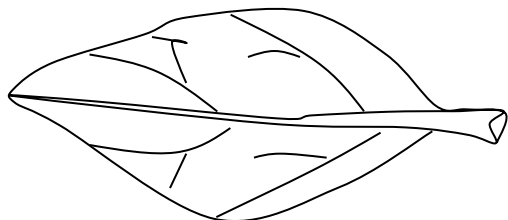
3. Identify the main natural source of water in our environment.

4. How does a chameleon protect itself from enemies?

5. Why is loam soil the best type of soil for growing crops?

6. Through what structures does an insect breathe?

7. **Study the diagram of a leaf shown below.**



Name part X _____

8. State the main function of a leaf to a plant.

9. How are female anopheles mosquitoes harmful to us?

10. Mention one animal that protects itself by using its shell.

11. What is the main reason for giving first aid?

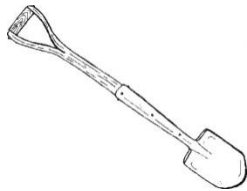
12. Why do farmers mulch their gardens?

13. Suggest one way rainfall can be dangerous.

14. How are bees useful to a crop farmers?

15. Name the inner part of a shadow.

16. **The diagram below shows a garden tool.**



What name is given to the tool shown in the diagram above?

17. How is the garden tool shown above useful to a crop farmer?

18. What does a fish use for breathing?

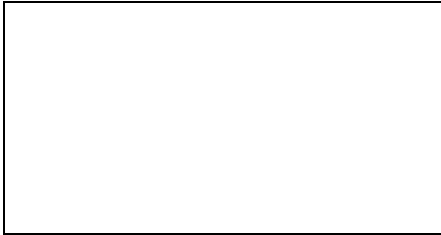
19. Write one characteristic of living things.

20. Name the largest bee in a beehive.

21. Why is a bean plant called a flowering plant?

22. Write PHC in full.

23. In the space below, draw one item used in cleaning our teeth.



24. Who should be given ORS?

25. Give one example of a legume commonly eaten at your school.

26. Suggest one way insects can be useful to man.

27. Why doesn't a mango plant make its food at night?

28. Mention one factor that affects the rate of transpiration.

29. What type of change takes place when a child grows into an adult person?

30. The diagram below shows a germinating seed.

What type of germination is shown in the diagram above?

31. State the function of part M after the seed has germinated.

32. Why do we need carbohydrates in our bodies?

33. Mention one product got from cows.

34. Why does water take long to pass through clay soil?

35. Where does a sugarcane store its food?

36. Write one accident that can occur at school.

37. On what plant system are flowers found?

38. How is a fern similar to a moss in terms of reproduction?

39. How do farmers in hilly areas control soil erosion?

40. Harvesting is the collection of ready crops from the garden. Suggest one method used by farmers to harvest their crops.

SECTION B (60 marks)

(Each question carries 4 marks)

41. (a) What is air?

(b) How is the component of air with the smallest percentage useful to man?

- (c) What property of air is demonstrated by a footballer, who is pumping air into a ball?

- (d) State one disadvantage of air to man.

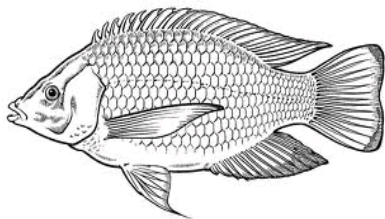
42. (a) What is personal hygiene?

- (b) State the danger of having long finger nails.

- (c) When should we brush our teeth?

- (d) What can be the danger of having no proper personal hygiene?

43. **The diagram below shows a fish.**



- (a) Name part Y.

- (b) How is part Z useful to a fish?

- (c) What does a fish use for breathing?

- (d) Name the part of an insect that has a similar function with part X shown in the diagram above.

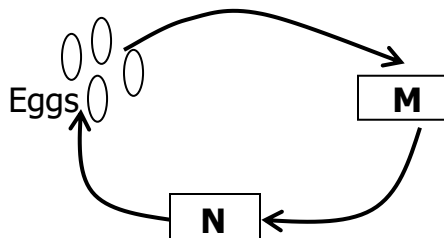
44. (a) Explain the term 'mulching'.

- (b) State one advantage of mulching.

- (c) How can mulching be harmful?

- (d) Give the reason why mulches should be in dry form.

45. ***The diagram below shows a life cycle of an insect.***



- (a) Name the type of life cycle shown in the diagram above.

- (b) Identify the stages marked by

(i) N

(ii) M

- (c) Give one example of an insect that undergoes the life cycle above.

46. (a) What is a vector?

- (b) Mention one way of making water safe for drinking.

(c) What vector spreads each of the following diseases:-

(i) trachoma _____

(ii) elephantiasis _____

47. (a) What is a flowering plant?

(b) Give the name of each of the following:

(i) the female part of a flower.

(ii) the male part of a flower.

(c) State one function of a stem to a plant.

48 (a) What is soil profile?

(b) Name the soil layer that supports plant growth.

(c) List down two components of soil.

(i) _____

(ii) _____

49 (i) How is a shadow formed?

(b) State two ways shadows are useful.

(i) _____

(ii) _____

(c) What do we call materials that allow light to pass through them easily?

50. (a) Explain the term photosynthesis.

(b) Give one of the raw materials for photosynthesis.

(c) How does man benefit from photosynthesis?

(d) Write the product of photosynthesis.

51. **Study the diagram below and answer the questions that follow.**

(a) Identify the roots marked Y.

(b) How are the roots shown in the diagram useful to a plant?

(c) Give one example of a plant with such roots.

(d) By what process do roots absorb water and minerals from soil?

52 (a) What are domestic animals?

(b) Give one example of a domestic animal that provides security.

(c) Suggest two ways a farmer can care for his domestic animal that provides security

(i)

(ii)

53. (a) What does an insect use for feeling?

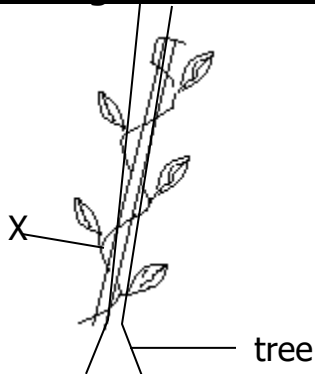
(b) Give one example of an insect that is dangerous to a crop farmer.

(c) Suggest any two characteristics of insects.

(i)

(ii)

54. **The diagram below shows a plant climbing another.**



(a) Give one reason why some plants climb others.

(b) What method of climbing is shown in the diagram above?

(c) Identify the type of stem marked X.

(d) Write one example of a plant that grows like the one shown above.

55. **Match the crops in A with their types in B.**

A

Maize

Beans

Oranges

Cassava

B

- fruit crops

- cereal crops

- leguminous crops

- root crops

(a) maize _____

(b) beans _____

(c) oranges _____

(d) cassava _____

Good luck

