

PRIMARY SIX
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

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 the best soil for growing crops.

2. Give one example of a pouched mammal.

3. How does painting prevent rusting of metals?

4. How is a spur useful to a cock?

5. Why is ironing of clothes a good health habit?

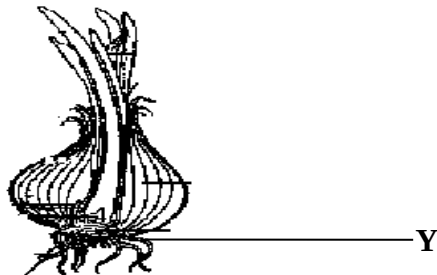
6. State one danger of deforestation to the environment.

7. Why is burning referred to as a chemical change?

8. Why is a spider not regarded as an insect?

9. What is the gestation period of a ewe?

The diagram below shows the structure of an onion. Study it carefully and answer question 10.



10. Name the type of roots marked **Y**.

11. Give any one property of air.

12. Mention one disease of poultry caused by a virus.

13. Why do some trees shed off their leaves during a dry season?

14. Suggest one reason why bees swarm.

15. State any one way through which germs enter our bodies.

16. What form of energy does a falling stone have before it reaches the ground?

17. How do bees and wasps protect themselves?

18. Why is proper disposal of refuse important in a home?

19. How is the life cycle of a grasshopper similar to that of a locust?

The diagram below shows the structure of a blood cell. Study it and answer question 20.



20. Name the blood cell shown above.

21. What is immunity?

22. How is sound energy produced?

23. Give one anti-social behaviour.

24. What causes scabies?

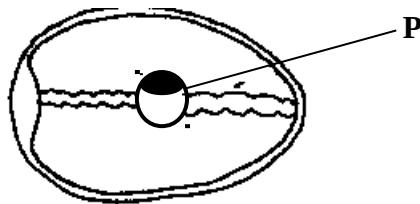
25. Why do veins in the body have valves?

26. Name the danger of floods in the environment.

27. State one disorder of the skeletal system.

28. Why do some objects float when placed in water?

The diagram below shows an egg. Use it to answer question 29.



29. What does part P develop into after fertilization?

30. Which part of air is trapped by the bacteria found in the nodules of legumes?

31. Name one method of grazing goats used in rural areas.

32. How are fish similar to amphibians in terms of reproduction?

33. Give one example of a poisonous snake.

34. State any one communicable disease common in our homes and communities.

35. How do fungi reproduce?

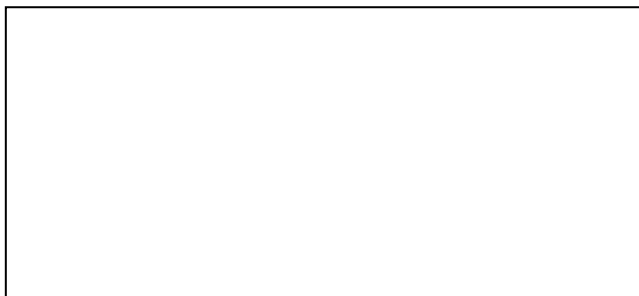
36. Give one word used to mean the female part of a flower.

37. How does malaria spread from an infected person to a healthy one?

38. Why do you think a chameleon changes colour?

39. Mr. Kadogo catches enough fish for the family to feed on for a week. Suggest one method the family can use to prevent their fish from going bad.

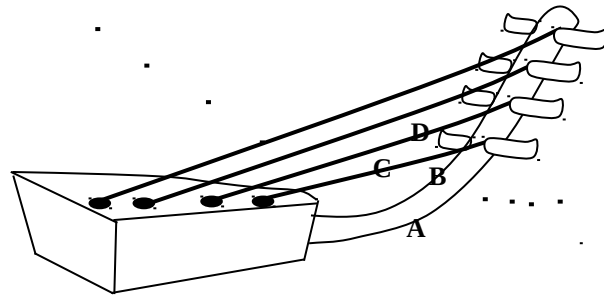
40. In the space provided below, draw an illustration to show network venation.



SECTION B

(Questions in this section carry 4 marks each)

41. Study the diagram of a musical instrument and use it to answer questions that follow.



(a) To which group of musical instruments does the one above belong?

(b) Which of the strings **ABCD** will produce sound for:-

(i) high pitch: _____

(ii) low pitch: _____

(c) How does the instrument above produce sound?

42. (a) Name the three types of manure.

(i) _____

(ii) _____

(iii) _____

(b) State one disadvantage of using artificial fertilizers.

43. Human activities are carried out as shown below.

- (i) Draining swamps
- (ii) Releasing a lot of smoke from factories.
- (iii) Crop rotation
- (iv) Dumping polythene bags in soil

(a) Which activity will block water and air from entering soil?

(b) Which activity will cause air pollution?

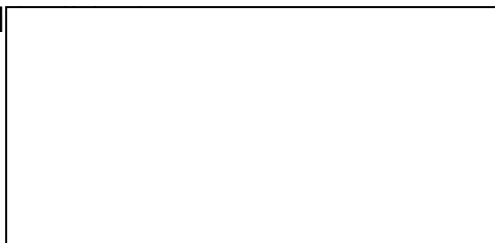
(c) Which activity will control pests and diseases?

(d) Which activity will cause decrease in the amount of rainfall?

44. (a) What is meant by the term germination?

(b) Mention any one type of germination.

(c) In the space below, draw a diagram to show the type of germination mentioned



(d) Give one condition necessary for seed germination to take place.

45. Study the table of immunization below and complete it correctly.

	Disease	Vaccine	Site
(a)	Tuberculosis	BCG	_____
(b)	Measles	_____	Left upper arm
(c)	_____	Polio vaccine	_____

46. (a) Name the smallest stones that are found in the gizzard of a bird.

(b) State what happens to food in the crop of a bird.

(c) Apart from using their beaks, how else do birds protect themselves?

(d) In the space below, draw the foot of a swimming bird.

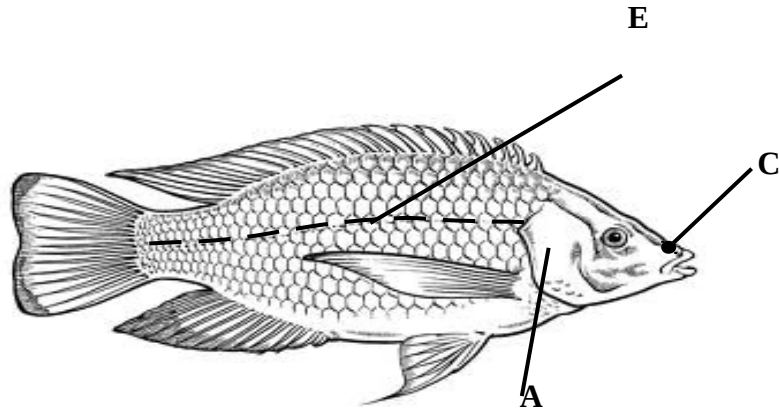
47. (a) Name the part of air that forms the least percentage.

(b) Give one component of air.

(c) Which property of air enables one to drink soda from a straw?

(d) Why is air called a mixture of gases?

48. Study the diagram of a fish below and use it to answer the questions that follow.



- (a) Name parts labelled with letters **A** and **C**.
- (i) **A.** _____
- (ii) **C.** _____
- (b) State the importance of the feature marked with letter **B** to the fish.
- _____
- (c) Give any one characteristic that enables a fish to stay in water.
- _____

49. (a) Define the term mammals.

(b) State any two characteristics of mammals.

- (i) _____
- (ii) _____

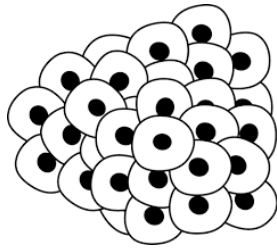
(c) Mention one egg-laying mammal.

50 Identify any four milk products.

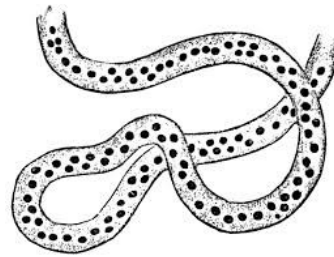
- (i) _____
- (ii) _____
- (iii) _____

(iv) _____

51. The diagrams below show two different kinds of eggs. Use them to answer questions that follow.



N



M

(a) Name the animal that lays eggs shown by letter:

(i) **N** _____

(ii) **M** _____

(b) State any two differences between the two animals named above.

(i) _____

(ii) _____

52. (a) Identify any three activities that can be done by a teacher on a health parade.

(i) _____

(ii) _____

(iii) _____

(b) Give one role played by a school health committee.

53. (a) What is an accident?

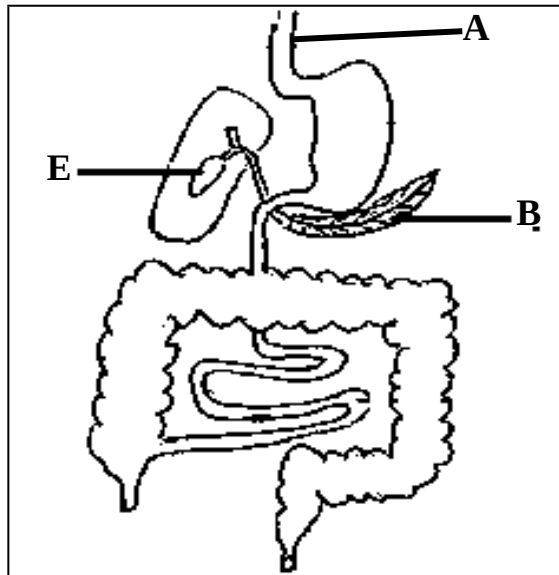
(b) Give any two reasons for giving First Aid.

(i) _____

(ii) _____

(c) Mention one quality of a good First Aider.

54. Study the diagram below and answer the questions that follow.



(a) Name the part marked with letter **B**.

(b) State the function of part labelled **E**.

(c) By what process does food move through the part marked **A**?

(d) Mention any one disorder of the digestive system.

55. (a) What are weeds?

(b) List two ways of weeding crops.

(i)

(ii)

(c) Suggest any one way a farmer can use weeds.

Good luck

