

SUBJECT INTEGRATED SCIENCE  
 CLASS PRIMARY SIX  
 DURATION 2 hours 15 minutes

Name: \_\_\_\_\_  
 School: \_\_\_\_\_  
 District: \_\_\_\_\_

## READ THE FOLLOWING INSTRUCTIONS CAREFULLY:

1. This paper has two sections A and B.
  2. Section A has 20 questions (40 Marks).
  3. Section B has 15 questions (60 Marks).
  4. Attempt all questions in both sections. All answers to both sections A and B must be written in the spaces provided.
  5. All answers must be written in blue or black ball point pens or *ink*. Only diagrams and graph work must be done in *pencil*.
  6. Unnecessary *alteration* of work will 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:

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Total		

Please turn over

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25. Name the type of germination where cotyledons obtain food from the endosperm.

26. Mention any one example of a non-renewable resource in the environment.

The diagram below shows a common animal. Study and use it to answer question 27.



27. How are the hind legs of the above animal well adapted to their function?

28. State any one method of controlling crop pests in the garden.

29. Mention any one result of poor sanitation in an area.

30. Give any one example of harmless fungi.

31. State any one way of controlling the effects caused by mad dogs to people.

32. Name the internal parasites that greatly damage the liver.

33. Mention any one example of a bird that feeds on nectar.

34. Give any one example of a physical change.

35. State any one example of a common cause of accidents.

36. Mention any one device used to reproduce stored sound.

37. Which force of attraction exists between molecules of the same substances?

38. Give a reason why weaning babies are considered as vulnerable people.



## SECTION A 40 MARKS

Questions 1 to 40 carry one mark each

1. Give any one use of soil to people.

2. State the mode of fertilisation that amphibians undergo.

The diagram below shows a flower. Study and use it to answer questions 3 and 4.



3. What happens when pollen falls on part labelled with letter X?

4. Which type of pollination takes place in the flower drawn above?

5. Give any other class of food that provides people with energy apart from carbohydrates.

6. What is the function of red blood cells in the body?

7. State any one disadvantage of mulching.

8. Give any one reason why we should do physical exercises.

The diagram below shows an example of a percussion musical instrument. Study and use it to answer question 9.



9. How can the pitch of the above musical instrument be changed?

10. Give any one characteristic of floating objects.

11. State any one danger of cloudy weather in the environment.

12. State any one way you as a P.B pupil can avoid smoking.
13. Mention any one bad eating habit.
14. Give the vaccine administered to infants to protect them against tuberculosis.
15. State any one way some plants can be harmful to people.
16. Name any one condition in the atmosphere necessary for photosynthesis in plants.
17. Mention any one way of drying utensils after washing them at home.

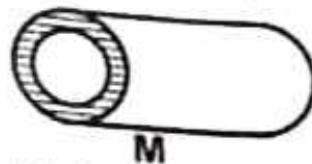
The diagram below shows part of the digestive system. Study and use it to answer questions 18 and 19.



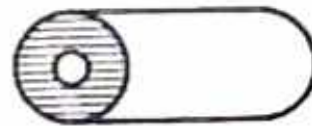
18. Name the part labelled with letter A.
19. Which important process takes place in part labelled B?
20. Give any one harmful material in soil.
21. Write any one example of an insect pest that undergoes an incomplete lifecycle.
22. What is the gestation period of a cow?
23. Mention one effect of alcohol to the memory of an individual.
24. What are conductors of heat?



The diagram below shows two different types of blood vessels.  
Study and use them to answer questions 39 and 40.



M



N

39. Identify blood vessel labelled with letter M.

40. State any **one** structural difference between blood vessels marked M and N.

### SECTION B: 60 MARKS

Questions 41 to 55 carry four marks each.

41. a) Give any **two** examples of exotic breeds of sheep kept for wool production.

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

b) State the importance of shearing up in sheep.

c) Give any **one** factor to be considered when choosing a good sheep breed.

42. a) How do broken bottles contribute to increased spread of malaria in the community?

b) Write any **two** signs and symptoms of malaria in an individual.

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

c) Apart from removing broken bottles, write **one** other way of controlling the spread of malaria.

43. a) State any **two** examples of organisms that live in the soil.

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

b) Give **two** ways organisms benefit from the soil.

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



44. The diagram below shows part of a flowering plant. Study and use it to answer the questions that follow



- Name the part labelled with letter P
- Give any two functions of part labelled with letter Q
- Name the pigment found in part marked with letter Q

45. a) Give any two properties of air

i)

ii)

- b) State any two dangers of strong wind in the environment.

i)

ii)

46. a) Give any two activities done by a family to promote immunisation.

i)

ii)

- b) At what age should the following vaccines be administered to babies?

i) measles vaccine

ii) second dose of DPT vaccine

47. The diagram below shows a water cycle. Study and use it to answer the questions.



- a) Identify the processes taking place at A and B

i) A

ii) B

b) How are the following items useful in the promotion of personal hygiene?

1.  $200 \times 0.1 \times 0.2 = 4$

a) Transkriptionsfaktor

53 Match these parts of the respiratory system in list **M** to their functions in list **N**

## List N

epiglottitis

www.elsevier.com/locate/jmb

an saca

## Chapter 10

epiglottitis

- trachea

(10) 30 SACS

iv) diaphragm

## List N

It is where gaseous exchange takes place

It prevents choking

It contracts to create space for lungs

It directs air into and out of the lungs.

54. The diagram below shows an essential drug. Study and use it to answer the questions that follow.



a) State any **one** importance of the information labelled with letter **B** on the drug above.

b) To which group of essential drugs does the one drawn above belong?

c) If a patient was given 36 tablets of such a drug, how many days will he take to complete the dose? (2marks)

55. a) Explain the meaning of the term resources.

b) Why are plants grouped under renewable resources?

c) Mention any **two** ways of conserving plants as resources.

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