

FLOURISH OF EXCELLENCE

2024

INTEGRATED SCIENCE

Time Allowed: 2 hours 15 minutes

PRIMARY SEVEN MID FEB EXAMINATIONS

Pupil's Name:

School District.....

Read the following instructions carefully:

1. Do not write your **school** or **district name** anywhere on this paper.

2. This paper has two sections: **A** and **B**.

Section **A** has **40** questions and
Section **B** has **15** questions. The paper
has **14 printed pages** altogether.

3. Answer **all** questions. **All** answers to both
sections **A** and **B** must be written in the
spaces provide

4. **All** answers **must** be written using a **blue** or
black ball point pen or ink. Any work
written in pencil will **not** be marked.

5. Unnecessary **changes** in your work and
Handwriting that cannot be read easily may
lead to **loss** of marks.

6. Do not fill anything in the table indicated:
"For Examiners' Use only" and boxes
inside the question paper

FOR EXAMINERS' USE ONLY		
Qn.No.	MARKS	EXR'S NO.
1 – 10		
11 – 20		
21 – 30		
31 – 40		
41 – 43		
44 - 46		
47- 49		
50 - 52		
53 - 55		
TOTAL	TOTAL	

SECTION A: 40 MARKS

Questions **1** to **40** carry **one mark** each

1. What is the importance of a veranda on a living house?

.....

2. In which way is the left side of the heart suitable for its function.

.....

3. Name any one body organ which helps in the absorption of useful materials in the body.

.....

4. What is germination?

.....

5. How is a damp proof course useful to a living house which is under construction?

.....

Below is an illustration showing the skull of a dog. Use it to answer questions that follow.



6. Name the part marked with letter **X**.

.....

7. State one way how air can be compressed is applied in our daily lives.

.....

8. Why is **DPT** + Hep B + Hib vaccine referred to as a pentavalent vaccine?

.....

9. Name one example of a crop which can be grown in mounds.

.....

10. Mention any one element of sanitation.

.....

11. What is the density of an object whose mass is **14g** and volume **7cc**.

The diagram below is of an equipment used in bee keeping.
Use it to answer the questions that follow.



12. How is the equipment above useful to the bee keeper?

.....

13. Suggest any one reason why it is important to wash hands with clean water and soap after visiting latrines.

.....

14. In the space below, draw an illustration to show structure of an egg and on it name the egg shell

15. How is drug abuse different from drug misuse?

.....

16. How can distillation process be useful in our daily lives?

.....

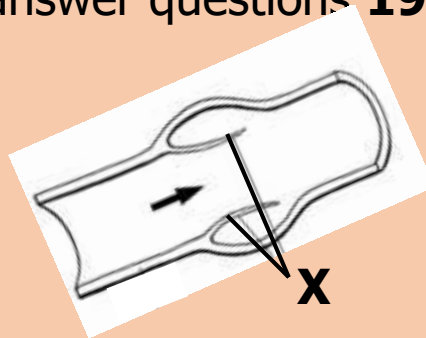
17. What characteristic enables living things to multiply in numbers?

.....

18. State one way in which a plate stand is useful at home.

.....

The diagram below shows a certain type of blood vessel.
Study it and answer questions **19** and **20**.



19. What adaptation enables blood to flow in one direction in blood vessel above?

.....

20. Write down any one disease which can affect the efficiency of the above body organ.

.....

21. Apart from air pollution, give one other type of pollution in the environment.

.....

22. Suggest one way how petroleum as a fossil fuel can be conserved in the environment.

.....

23. What do you understand by the term digestion?

.....

.....

24. Why are sugar cane plants not regarded as stem tubers?

.....

25. How is the respiratory system related to the circulatory system?

.....

26. What is a resource?

.....

.....

27. Change 95° to $^{\circ}\text{C}$.

28. How is a horse pipe important to a crop farmer?

.....

29. What scientific term is used to mean the making of glucose in the presence of sunlight and chlorophyll?

.....

30. In which way is a kink of a doctor's thermometer similar to valves of the human heart in terms of function?

.....

31. What life skill can be promoted when a P.7 child says no to the wrong groups and say no to the use of drugs.

.....

32. Name one way of caring for metallic garden tools apart from preventing oxygen supply to them.

.....

The diagrams below are parts of the human body. Use them to answer questions 33 and 34.



33. Name the part of the body marked **M**.

.....

34. Which body sense is detected by the body organs marked **Z**.

.....

35. State any one way of saving resources at home.

.....

36. Name one reason why a deep litter house should be kept clean regularly.

.....

37. In which way do skinks protect themselves from their enemies in the environment

.....

38. What is soil erosion?

.....

.....

39. The diagram below shows a tool made from local materials. Study it carefully and use it to answer the questions.



How is the above tool useful to people?

.....

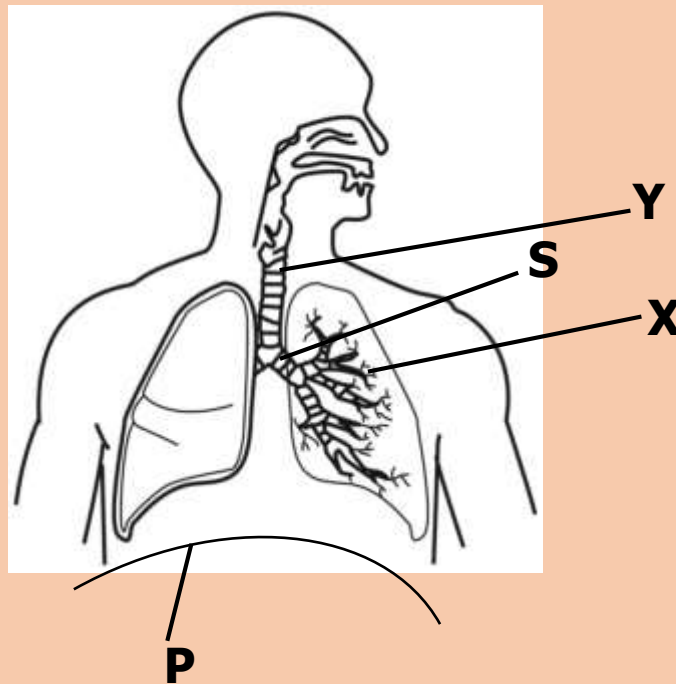
40. Why do lung fish take long to die shortly after they are removed from the water?

.....

SECTION B: 60 MARKS

Question **41** to **55** carry four marks each

41. The diagram below is of a human respiratory system. Study it and use it to answer questions that follow.



a. Name the part marked **S**.

.....

b. How is part **Y** able to remain open at all times without collapsing?

.....

c. What happens to part **P** during inhalation?

.....

d. State one disease which affects the above system and is worsened by smoking?

.....

42. a. What are poultry vices?

.....

.....

b). How does cannibalism affect a poultry farmer

.....

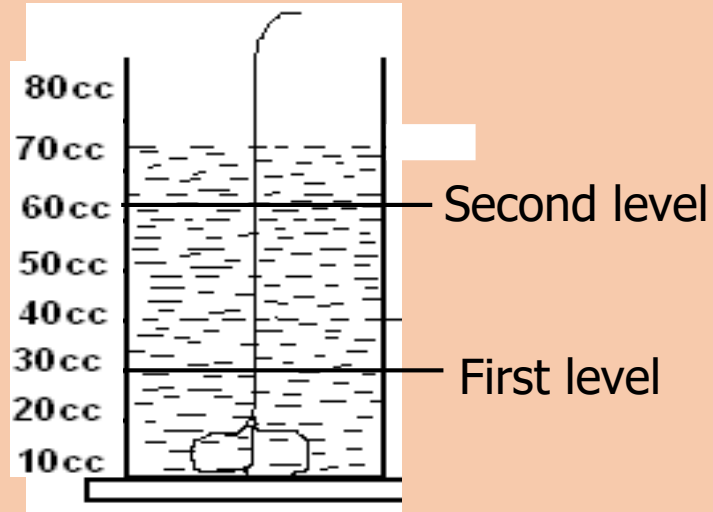
c. Mention one way a farmer can manage poultry vices in the deep litter house.

.....

d. Name any one disease that is commonly shared among poultry and rabbits.

.....

43. An experiment was carried out by p5 pupils to find the volume of a stone using a measuring cylinder as shown below.



a. Calculate the volume of the stone above.

b. Why is the volume of the stone equal to that you have given in **(a)** above

.....

.....

c. Mention one example of a sinking object.

.....

44. In four sentences describe the steps taken to recover salt which has accidentally poured in sand soil. (4 marks)

i).....
.....

ii).....
.....

iii).....
.....

iv).....
.....

45. a). What is a balanced diet?

.....
.....

b. Mention any two components of a balanced diet.

i).....
ii).....

c. Name the deficiency disease which is caused by the absence of vitamin B3 in the diet.

.....

46. a). Give two reasons why heat energy travels fastest in the gaseous state of matter.

.....

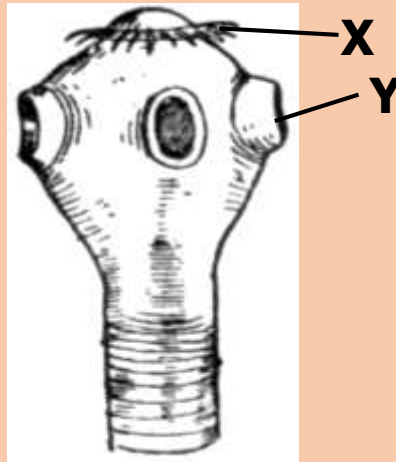
b. Apart from smoke state any two other examples of gaseous states of matter.

i).....
ii).....

c. State one way in which heat transfer by conduction can be applied in our daily lives.

.....

47. The diagram below shows the head of an intestinal worm. Study it and use it to answer the questions that follow.



a. Name the part marked **X**.

.....

b. How is part **Y** useful to the above intestinal worm?

.....

c. Why can't the above intestinal worm be moved during peristalsis?

.....

d. Suggest one way how infestations caused by the worm above can be controlled among school going children.

.....

48. a). Name the component of air used for:

i). Supporting burning.

.....

ii). Putting out fire.

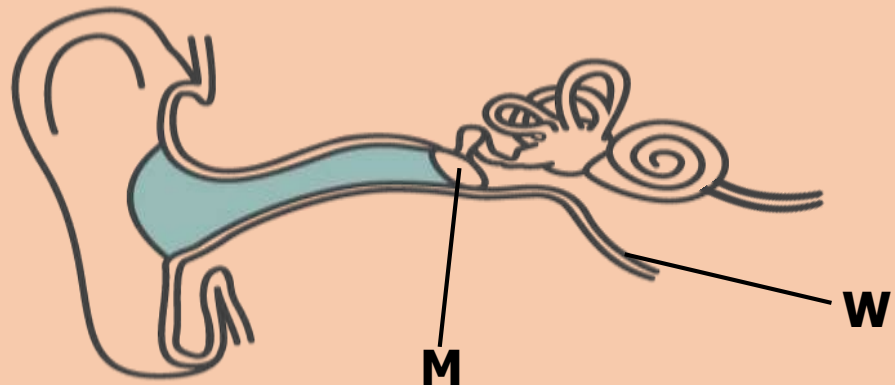
.....

b). State any two dangers of sunshine to people.

i).....

ii).....

- 49.** Below is the diagram showing the structure of the human ear. Study it and answer use it to answer the questions that follow carefully.



- a. How is part **M** adapted to its function of changing sound waves into vibration?
.....
- b. Which part of the diagram above performs the same function like the optic nerves in the human eye?
.....
- c. Suggest any two ways of caring for the above body organ.
i).....
ii).....
- 50.** Match the following diseases in A to B carefully.

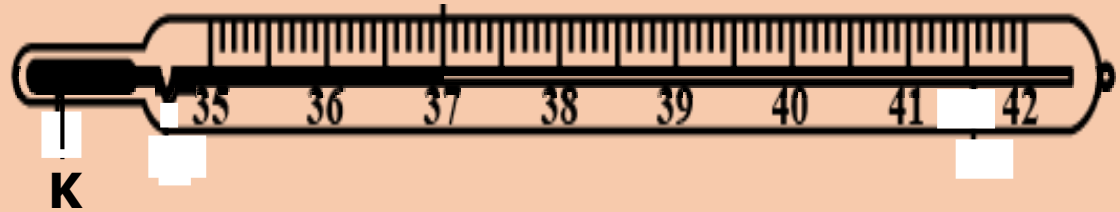
A

Yellow fever
Malaria
Sleeping sickness
Dysentery
Yellow fever:
Malaria:
Dysentery:
Sleeping sickness:

B

Amoeba
Trypanosoma
Virus
Plasmodia

51. a) On the medical instrument below, show the part that prevents backflow of mercury before actual temperature readings are recorded.



- b) What is the role of the above instrument to a doctor?

.....

- c) Give the function of part marked with letter **K**.

.....

- d) Why does the doctor shake the above instrument before using it?

.....

52. a). State the importance of each of the following parts to a vein.

- i). Thin walls.

.....

- ii). Wider lumen.

.....

- b. How are arteries able to prevent the backflow of blood yet they have no valves.

.....

- c. Why do arteries have thick walls?

.....

53. a).Which method of making alcohol produce the highest concentration of alcohol.
.....
- b. In which way does alcohol affect the digestive system?
.....
- c. Give two medical uses of alcohol to a health worker.
i).....
ii).....
54. a).What is a resource?
.....
.....

- b. Mention any one way of conserving fossil fuels as a resource?
.....
- c. Which alloy is mainly used by doctors to fill dental cavities of decayed teeth?
.....

55. The table below shows food stuffs prepared in different families.

Family A	Family B	Family C	Family D
Matoke	Cassava	potatoes	Millet
Yams	Beans	Posho	Fish
Meat	Posho	Cassava	Goat milk
Beans	Yams	Yams	Mangoes

- a. Which family will be able to have vitamin **C**.
.....

- b. Which family has proteins but lacks fats?
.....

- c. What food nutrients are lacking in family **A**?
.....

- d. Which family has almost a balanced diet.
.....

THE END
I WISH YOU SUCCESS

