



**THE SPECTRUM EXAMINATIONS HUB**  
**END OF TERM III ASSESSMENT, 2024**  
**P.4 INTEGRATED SCIENCE**  
**Time allowed 2hrs 15 minutes**

**NAME** \_\_\_\_\_

**SCHOOL** \_\_\_\_\_

Read the following instructions carefully:

1. This paper has two sections: A and B
2. Section A has 40 questions (40 marks)
3. Section B has 15 questions (50 marks)
4. Answer all questions. All the work for both sections A and B must be shown in the spaces provided.
5. All work must be done using a blue or blackball point pen or ink. Any work done in pencil will NOT be marked except drawings and diagram.
6. Unnecessary changes in your work and handwriting that cannot be easily read may lead to loss of marks.
7. Do not fill anything in the table indicated; "For examiners' use only" and the boxes inside the question paper.

**FOR EXAMINERS' USE ONLY**

<b>Qn. No.</b>	<b>MARK</b>	<b>EXR'S</b>
<b>1 - 10</b>		
<b>11 - 20</b>		
<b>21 - 30</b>		
<b>31 - 40</b>		
<b>41 - 43</b>		
<b>44 - 46</b>		
<b>47 - 49</b>		
<b>50 - 52</b>		
<b>53 - 55</b>		
<b>TOTAL</b>		

### **SECTION A:**

1. What type of food do plants make during photosynthesis?  
.....
2. Identify one disease caused by germs.  
.....
3. How do crop farmers control pests in a garden?  
.....
4. Why are people encouraged to wash their hands before eating?  
.....

**The diagram below shows an injured arm. Use it to answer the questions that follow.**

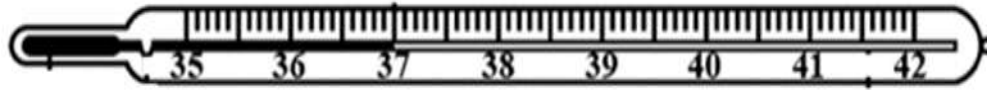


5. What type of accident is shown in the diagram above?  
.....
  6. How is part marked Y useful when giving first aid to the casualty?  
.....
  7. Why is clay soil the best for modelling?  
.....
  8. At what time of the day are we advised to transplant seedlings?  
.....
  9. Identify any one disease which is spread through poor personal hygiene.  
.....
  10. Apart from looking for food, why else do animals move?  
.....
  11. Name the source of energy plants use to make food.  
.....
  12. Why should wheelbarrows be painted?  
.....
  13. Mention one way of keeping our teeth in good health conditions.  
.....
- Given the following list of foodstuffs: **oranges, soya beans, mangoes.**
14. Which foodstuffs can you group together?  
.....

15. Give a reason for your answer in question (14) above.

.....

**Below is a diagram of an instrument commonly used by doctors.  
Use it to answer questions 16 and 17.**



16. Name the instrument drawn above.

.....

17. How is the above named instrument useful to a doctor?

.....

18. Which part of a monocotyledonous seed stores food for the embryo?

.....

19. Why do we eat food?

.....

20. State one way the process of evaporation is important in our environment.

.....

21. What happens to sugar when it is placed in water and stirred?

.....

22. Which human organ has the same function as the gills of fish.

.....

23. Give the function of lungs in a human body.

.....

24. Why is calcium important in the development of our teeth?

.....

25. By what process are nimbus clouds formed?

.....

26. Why do some objects like a piece of paper float on water?

.....

27. State one way the practice of eating undercooked beef can affect our health.

.....

.....

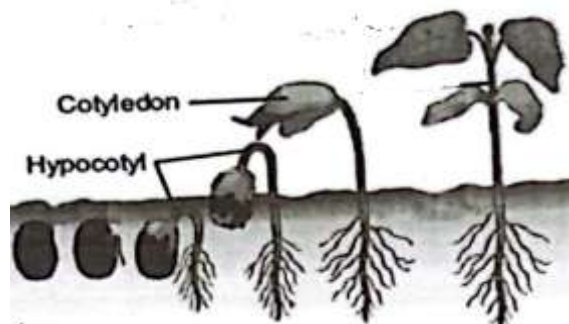
28. What weather condition is best for winnowing grains?

.....

29. Why does a chameleon change its colour to resemble that of its surroundings?

.....

30. Name the type of germination shown in the diagram below.



31. How can a P.4 child avoid contracting **HIV**?

32. Give one example of a transparent object.

33. Give one of the **3Bs** in first aid management.

34. How can the sun be dangerous to people?

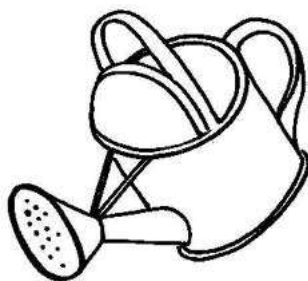
35. State one function of leaves to a plant.

36. How is lack of latrines in a community dangerous to the people living there?

37. Mention one importance of the process of rotting in the environment.

38. Give one use of electricity in a home.

**Below is a garden tool. Use it to answer questions 39 and 40.**



39. Name the tool shown in the diagram above.

40. How is the above garden tool useful a farmer?

## SECTION B

41. (a) Give one example of each of the following:

(i) cereal crops

.....

(ii) leguminous crops

.....

(b) Give one characteristic of each of the following:

(i) leguminous crops

.....

(ii) cereal crops

.....

42. (a) What is a balanced diet?

.....

(b) Give two classes of food found in a balanced diet.

(i) .....

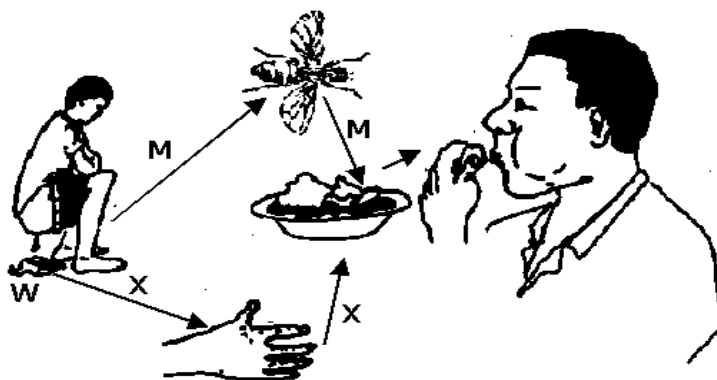
(ii) .....

(c) Why would you advise a mother whose child is suffering from scurvy to give him orange juice?

.....

.....

43. **The diagram below shows a germ path. Use it to answer the questions that follow.**



(a) Name the substance marked **W** in the above germ path.

.....

(b) Name one disease commonly spread through route **M**.

.....

(c) Give one way the spread of germs through **X** can be prevented.

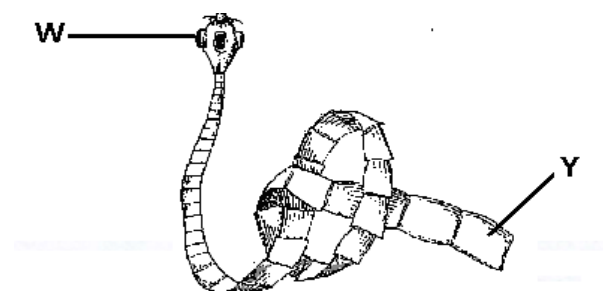
.....

(d) Mention one place at home where substance **W** should be placed.

.....

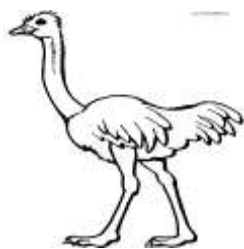
44. (a) Name two sources of light.  
 (i).....  
 (ii).....  
 (b) Give one use of light.  
 .....  
 (c) What happens when light rays fall on an opaque object?  
 .....
45. (a) Identify any two types of weather.  
 (i).....  
 (ii).....  
 (b) Name any two elements of weather.  
 (i).....  
 (ii).....
46. (a) Give the meaning of the following terms in rabbit keeping.  
 (i) kindling.....  
 (ii) buck.....  
 (b) Which rabbit disease makes a rabbit to have ears with wounds?  
 .....  
 (c) Suggest one way of controlling rabbit diseases.  
 .....

47. Below is a diagram showing a parasite. Use it to answer questions below.



- (a) What name is given to the parasite above?  
 .....
- (b) Name part marked **Y**.  
 .....
- (c) How is part marked **W** useful to the parasite?  
 .....
- (d) What does the parasite named in 47(a) above feed on?  
 .....

48. (a) What is photosynthesis?  
.....
- (b) In which part of a plant does photosynthesis mainly take place?  
.....
- (c) How is chlorophyll important during photosynthesis?  
.....
- (d) Mention one way animals benefit from photosynthesis at the time it takes place.  
.....
49. (a) Mention two functions of the teeth in animals.  
(i).....  
(ii).....
- (b) In which part of a tooth are nerves and blood vessels found?  
.....
- (c) Give one cause of tooth decay.  
.....
50. (a) What is air?  
.....
- (b) How are the following gases useful in the environment?  
(i) carbon dioxide  
.....  
(ii) oxygen  
.....
- (c) Mention one activity that spoils air.  
.....
51. (a) Mention one example of a climbing stem.  
.....
- (b) Write down one method climbing stems use to climb others.  
.....
- (c) Give two reasons why climbing stems climb others.  
(i).....  
(ii).....
52. **The diagram below shows a flightless bird wild bird.**



- (a) Name the bird shown above.  
.....

(b) Give any **one** reason why the above bird is unable to fly.

.....

(c) Where does the above bird stay?

.....

(d) Apart from the above bird, mention any other flightless bird you know.

.....

53. (a) What is harvesting?

.....

(b) Name two methods of harvesting.

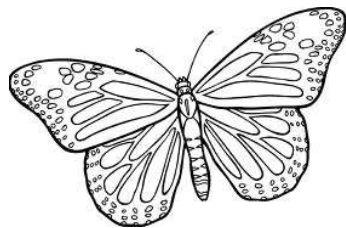
(i).....

(ii).....

(c) In which season do farmers harvest their crops?

.....

54. (a) Name the life cycle through which the insect below undergoes.



.....

(b) In which one way are insects important to human beings?

.....

(c) How are the following body parts useful to an insect?

(i) spiracles

.....

(d) (ii) antennae

.....

55. (a) Give one way food is contaminated.

.....

(b) Why do we smoke fish?

.....

(c) Mention two food storage facilities in a home.

(i).....

(ii).....

**END**



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