



**THE NERDS EXAMINATION SERIES**  
**P.7 EXAMINATION 2024(SET 1)**  
**INTEGRATED SCIENCE**  
**Time allowed: 2 hours 15 minutes**

**INDEX NUMBER**

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**CANDIDATES**

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

**CANDIDATE'S SIGNATUR** \_\_\_\_\_ **DATE** \_\_\_\_\_

**SCHOOL'S EMIS**

**NUMBER** \_\_\_\_\_

**DISTRICT**

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

**Read the following instructions carefully**

- 1 The paper has two sections **A** and **B**
- 2 All the working for both sections **A** and **B** Should be shown in the spaces provided
- 3 All working must be done using a blue or black ball point pen or fountain pain. Diagrams must be drawn in pencil
- 4 Unnecessary changes of work may lead to loss of marks
- 5 Any handwriting that cannot easily be read may lead to loss of marks
- 6 Do not fill anything in boxes indicated for examiner's use only and those inside the question paper

SECTION	MARKS
SECTION A	
SECTION B	
TOTAL	

1. What is meant by the term **rusting**?

.....

.....

2. State one advantage of rearing **exotic chicken** over **local ones**.

.....

.....

3. Mention any one factor that affects the **rate of photosynthesis**.

.....

.....

4. What are **contagious diseases**?

.....

.....

5. Over 75% of human body is water. Mention any one role played by water in our body.

.....

.....

6. Define **soil erosion**.

.....

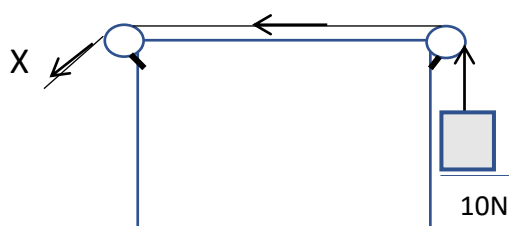
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7. **Pepsin** is a classic example of enzymes found in our body. Which system of the body releases pepsin?

.....

.....

***Study the diagram below and answer question 8***



8. The mechanical advantage of the above system is 0.5. Calculate the value of **X**.

.....

.....

9. How are **feathers** useful to birds during **courtship**?

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.....

10. What is **kindling** in rabbit keeping?

.....

.....

11. Change **97°F** to **°C**.

.....

.....

.....

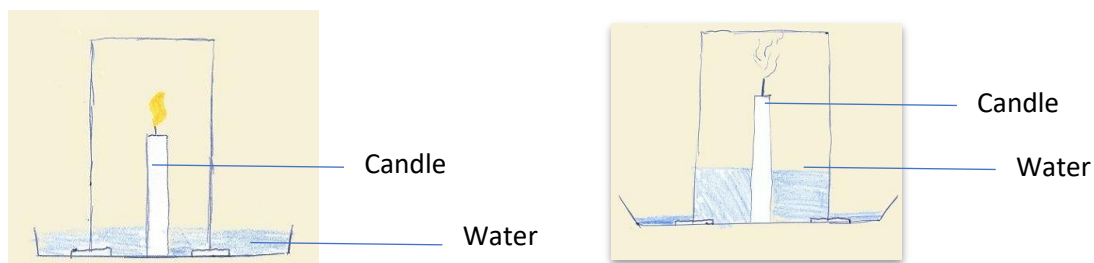
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12. Name any one disease that attacks cassava.

.....

.....

***Study the diagram below and answer question 13 and 14***



*Beginning of experiment*

*End of experiment*

13. What is the experiment about?

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.....  
14. Why did water level change?

.....  
.....  
15. What is the general term given to **flowering plants**?

.....  
.....  
16. Mention the **byproduct of photosynthesis** that contributes to rusting.

.....  
.....  
17. Name any one part of **axial skeleton**.

.....  
.....  
18. Which form of **energy** is stored in dry wood?

.....  
.....  
19. Why is it not advisable to wear black clothes during a sunny day?

.....  
.....  
20. In the space below sketch the arrangement of particles in a **liquid state of matter**.

21. Define **block and tackle system**.

.....  
.....

22.State any one disease that affects the skin.

.....  
.....

23.How can the disease mentioned above be prevented?

.....  
.....

24. State any one factor that affects the speed of light.

.....  
.....

25. Define the term **pitch** as used in the concept of sound energy.

.....  
.....

26. What is the meaning of **interdependence** as used in agroforestry?

.....  
.....

27. Write down any one factor of **poor sanitation** in a home.

.....  
.....

28. Complete the following equation with reference to **complementary colors**.

Blue + yellow = .....

29. Give one reason why **bleaching** your skin is bad.

.....  
.....

30. Differentiate between **magnetism** and **magnets**.

.....  
.....  
.....

31. Why is **alternating current** recommended over **direct current** when transmitting electricity over long distances?

.....  
.....

32. Why is **clay soil** recommended for making of pots?

.....

33. “**No sun, no life on earth**”. Why is this statement true?

.....  
.....

34. Why is it that deep in the sea is unfavorable for life of most aquatic animals?

.....  
.....

35. “**Plants can survive without animals but most animals cannot survive without plants**”. Why is the above statement true?

.....  
.....

36. Which form of **reproduction** do cows undergo?

.....

37. What is meant by the term **toxins**?

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.....

38. Which **organ** of the body is largest?

.....

39. What is meant by the term **juvenile delinquency**?

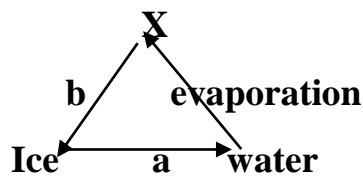
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40. Name any one example of **drugs** that can lead to **addiction**.

.....

### **SECTION B (60 MARKS)**

41. Study the diagram bellow and answer questions that follow



Name the process

**a** .....

**b** .....

Name the substance labeled **X**.

.....

b) State the type of change that takes place when water freezes.

.....

42. a) Give the meaning of the following terms;

i) Seed dispersal

.....

.....

ii) Pollination

.....

.....

iii) Guttation

.....

.....

b) State one reason why plant distribution in a land area is not uniform.

.....

.....

43 a). What is meant by the term **first aid**?

.....

.....

b) List any **three** items found in first aid kit.

.....  
.....  
.....

44 a) State any **two** examples of arthropods.

.....  
.....

b) Give two ways through which arthropods are important to a farmer.

.....  
.....

45 a) Write **P.H.C** in full.

.....  
.....

b) Give any three roles played by **P.H.C** in our communities.

.....  
.....  
.....

46. a) what is meant by the term digestion.

.....  
.....

b) Why is it advisable to chew food properly before swallowing it?

.....  
.....

c) Mention any two protein digesting enzymes.

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.....  
.....  
.....

47.a) Define **excretion**.

.....  
.....

b) Why is excretion important to our body?



.....  
.....  
.....

c) List any two substances removed by skin.

.....  
.....

48. a) list down any two differences between **veins** and **arteries**.

.....  
.....

b) Name any two adaptations of arteries to their functions.

.....  
.....

49 a) write down two things that can be added to poultry feeds that can enhance egg production.

.....  
.....

b) State any two practices a poultry farmer can do to increase on meat production.

.....  
.....

50 a) Name any two groups of worms.

.....  
.....

b) How are earth worms important to a farmer?

.....  
.....

51 a) what is **pollution**?

.....  
.....

b) Mention any three ways of controlling water pollution

.....  
.....  
.....  
52 a) what is meant by the term **rusting**?

.....  
.....  
b) State any two ways of controlling rusting of metals.

.....  
.....  
c) Why does the efficiency of machines reduce when some of its components rust?

.....  
.....  
53. a) what is the meaning of **ventilation**?

.....  
.....  
b) State any one reason why we maintain proper ventilation in our houses

.....  
.....  
c) What name is given to the type of death that results when a person receives insufficient oxygen?

.....  
.....  
d) Mention any one way of improving air supply to our houses

.....  
54. You are provided with the following materials

Salt, sugar, teaspoon, boiled water and clean containers. After washing your hands, write four steps you will take to prepare salt sugar solution for treating dehydration at home

.....  
.....  
55 a) what is **fuel**?

.....  
.....  
b) Mention the type of fuel used by vehicles.

.....  
c) Which chemical name is given to burning of fuel?

.....  
d) Name one danger of fuel burning.

.....  
***END***