



## THE NERDS EXAMINATION SERIES

### P.7 EXAMINATIONS 2024 (SET 7)

#### INTEGRATED SCIENCE

*Time allowed: 2hours 30minutes*

**INDEX  
NO.**

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CANDIDATE'S NAME .....

CANDIDATE'S SIGNATURE .....DATE .....

SCHOOL'S EMIS NO.....

DISTRICT NAME .....

#### READ THE FOLLOWING INSTRUCTIONS CAREFULLY:

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

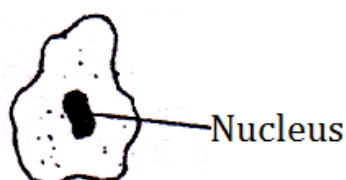
*For examiner's use only*

SECTION	MARKS
SECTION A	
SECTION B	
TOTAL	

## SECTION A

1. Apart from the lungs and skin, name any one other excretory organ.  
\_\_\_\_\_
2. What type of energy is possessed by a falling mango fruit before reaching the ground?  
\_\_\_\_\_
3. State any one reason why some plants climb others.  
\_\_\_\_\_
4. Mention any one common use of sand at home.  
\_\_\_\_\_
5. What first aid would you give to someone who has been burnt by a hot nail?  
\_\_\_\_\_
6. Give any one practice that may control the spread of cholera in your school.  
\_\_\_\_\_
7. Mention any one way in which crops benefit from trees in agro-forestry.  
\_\_\_\_\_
8. How does a rat differ from a cockroach in the way they breathe?  
\_\_\_\_\_  
\_\_\_\_\_
9. Give any one way in which soil is important to plants.  
\_\_\_\_\_
10. Why is a wet cloth put on the body on a person with high fever?  
\_\_\_\_\_

***The diagram below shows a blood cell. Use it to answer questions 11 and 12.***



11. What type of blood cell is shown above?  
\_\_\_\_\_

12. State the function of blood cell in (11) above.

\_\_\_\_\_
13. What type of skeleton does a snail have?

\_\_\_\_\_
14. Name any one example of a leguminous crop.

\_\_\_\_\_
15. Give one reason why air is considered to be matter.

\_\_\_\_\_
16. Mention one disadvantage of keeping poultry on free range system.

\_\_\_\_\_
17. Give any one way in which people misuse drugs.

\_\_\_\_\_
18. Which human sense organ is attached by trachoma?

\_\_\_\_\_
19. In which one way is a biological change similar to a chemical change?

\_\_\_\_\_
20. State the method of making magnets without using another magnet.

\_\_\_\_\_
21. Identify any one common food that can be peeled, dried and pounded before it is prepared for eating as food.

\_\_\_\_\_
22. State one problem people who make bricks out of loam soil with small stones face.

\_\_\_\_\_
23. In the space below, draw a simple movable pulley.

\_\_\_\_\_
24. State a reason why VIP latrines have a lid cover at the hole?

\_\_\_\_\_

25. What method is used by people who keep bees to encourage bees occupy empty bee hive?

\_\_\_\_\_

\_\_\_\_\_

26. Give the role played by hydrochloric acid in the process of digestion?

\_\_\_\_\_

27. State any one way people can make good use of echoes.

\_\_\_\_\_

\_\_\_\_\_

28. Mention any one way a P.7 child can prevent an axe from rusting.

\_\_\_\_\_

\_\_\_\_\_

29. Identify any one sign of heat period in female animals.

\_\_\_\_\_

\_\_\_\_\_

30. Give a reason why black objects are seen to be black?

\_\_\_\_\_

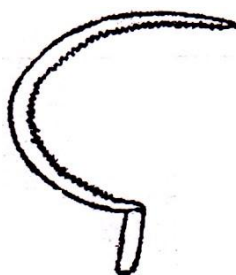
\_\_\_\_\_

31. What is the use of ear to a deaf person?

\_\_\_\_\_

\_\_\_\_\_

32. State the importance of the garden tool below to a farmer.



\_\_\_\_\_

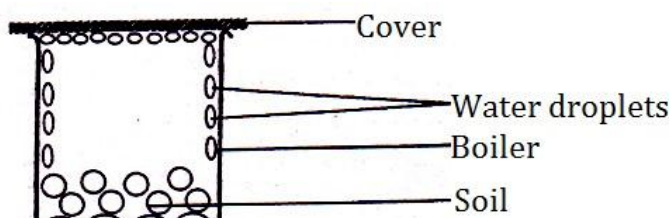
33. What name is given to the larva stage of a bee?

\_\_\_\_\_

34. Which bone in human skeleton protects the brains?

\_\_\_\_\_

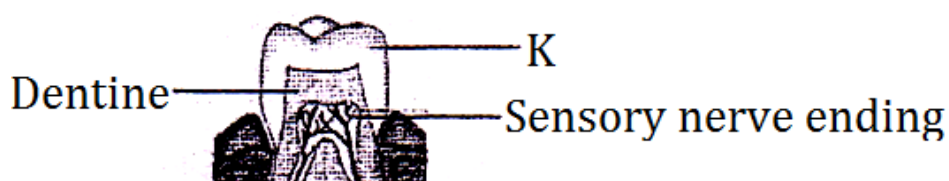
35. Mention the component of soil shown in the diagram below



- 
36. The front door at home makes noise at hinges as you open it. What advice can you give to your parents to stop this?
- \_\_\_\_\_
37. How does heat travel in a nail?
- \_\_\_\_\_
38. Which immunisable disease causes stiffness of body muscles in babies?
- \_\_\_\_\_
39. Mention any one example of a coniferous plant apart from pine and eucalyptus.
- \_\_\_\_\_
40. Give any one difference between images formed on plane mirror and a lens camera.
- \_\_\_\_\_
- \_\_\_\_\_

***SECTION B (60 Marks)***

41. (a) Identify any one secondary sex characteristic that happens both in girls and boys during adolescence.
- \_\_\_\_\_
- \_\_\_\_\_
- (b) State any two problems that may be a result of frequent pregnancies by a mother at home.
- (i) \_\_\_\_\_
- (ii) \_\_\_\_\_
- (c) Give any one way in which a P.7 child can avoid teenage pregnancies.
- \_\_\_\_\_
42. *The diagram below is a human tooth. Use it to answer the questions that follow*



(a) Name the parts marked with letters K and L.

(i) K \_\_\_\_\_

(ii) L \_\_\_\_\_

(b) Give the function of each of the following parts of the tooth.

(i) Cement:

\_\_\_\_\_

(ii) Sensory nerve ending:

\_\_\_\_\_

43. (a) Give any one reason why a rabbit hutch is raised above the ground.

\_\_\_\_\_

(b) State any two reasons why a wire mesh is used in building a rabbit hutch.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

(c) Name any one food stuff rabbits feed on.

\_\_\_\_\_

44. (a) Write any two causes of soil erosion.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

(b) Give any two ways soil erosion can be controlled in an area.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

45. (a) Which vector spreads the diseases below?

(i) Scabies: \_\_\_\_\_

(ii) Cholera: \_\_\_\_\_

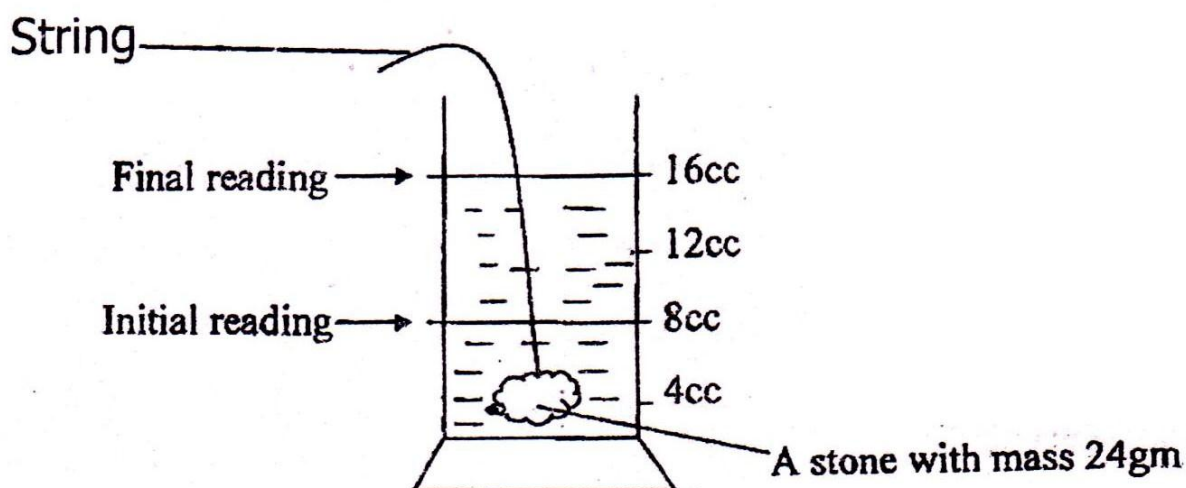
(b) Give a reason why a female anopheles mosquito does not spread HIV/AIDS?

\_\_\_\_\_

\_\_\_\_\_

(c) How can a P.7 child prevent tape worm infection in his/her home?

46. (a) Name any two body organs that make up the circulatory system.  
(i) \_\_\_\_\_  
(ii) \_\_\_\_\_  
(b) State the function of red bone marrow in short bones of the skeleton.  
\_\_\_\_\_  
(c) Which component of blood helps in clotting of blood at a cut?  
\_\_\_\_\_
47. (a) What friction force opposes a small stone thrown into a jerrycan of cooking oil? \_\_\_\_\_  
(b) State any two advantages of friction to man.  
(i) \_\_\_\_\_  
(ii) \_\_\_\_\_  
(c) State any one way friction can be reduced in a machine?  
\_\_\_\_\_
48. (a) Write down two methods used to get clean and safe drinking water from dirty water.  
(i) \_\_\_\_\_  
(ii) \_\_\_\_\_  
(b) Mention any two causes of water contamination in water bodies.  
(i) \_\_\_\_\_  
(ii) \_\_\_\_\_
49. *A primary five boy set up experiment assembly. Use it to answer questions that follow.*



(a) Name the method for experiment set by the P.5 boy.

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(b) Calculate the density of the stone.

(2mks)

(c) Name the container used in the experiment above.

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50. ***Match the diseases in list A to the animals they attack in list B below correctly.***

**List A**

New castle disease

African swine fever

Rabies

Render pest

**List B**

Cattle

Mad dogs

Poultry

Pigs

(i) New castle

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(ii) African swine fever

---

(iii) Rabies

---

(iv) Render pest

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51. (a) How does each of the following animals protect itself from enemies?

(i) Porcupine:

\_\_\_\_\_

(ii) Wasp:

\_\_\_\_\_

(b) Name the animal that stays in a:

(i) Sty: \_\_\_\_\_

(ii) Den: \_\_\_\_\_

52. (a) List down two agents of seed dispersal.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

(b) State any two advantages of seed dispersal.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

53. (a) Give any two examples of accidents that can happen at school apart from a burn, scald and fracture.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

(i) State any two reasons why accident victims should be given firstaid. \_\_\_\_\_  
\_\_\_\_\_

54 a) Give two safety precautions followed when keeping medicine in our homes.

\_\_\_\_\_  
\_\_\_\_\_

b) Give the difference between poisonous snakes and venomous snakes.

\_\_\_\_\_  
\_\_\_\_\_

55. List any four ways of improving soil productivity.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

***END***