



THE NERDS EXAMINATIONS BOARD
PRIMARY LEAVING EXAMINATION
SPECIAL SERIES 3 OF 4

2025

INTEGRATED SCIENCE

Time Allowed: 2 hours 15 Minutes

Random No.						Personal No.		

Candidate's Name:

Candidate's Signature:

District ID No.

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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.
3. Answer **all** questions. **All** answers to both sections **A** and **B** must be written in the spaces provided.
4. All answers **must** be written using a **blue** or **black** ball point pen or ink. Any work written in pencil other than drawings 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 in the 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		

SECTION A: 40 MARKS

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

1- Which type of bees have a sperm sac?

2- How does rusting affect magnets?

3- Kato is 40 years old. What set of teeth does he have?

4- How is pulmonary artery different from other arteries?

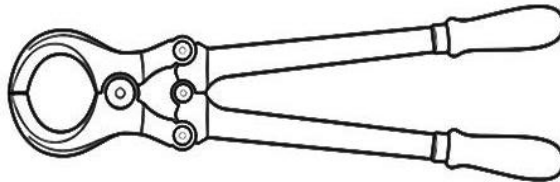
5- How does sound of a bell reach P.7 candidates in their classrooms?

6- Name the sheep management practice done to ease mating?

7- How does an ostrich move from one place to another?

8- Apart from oxygen, how is burning similar to rusting?

Use the diagram of a farm tool below to answer question 9 and 10.



9- Name the farm tool in the diagram above.

10- Give any **one** male domestic animal which is worked on using the above farm tool.

11- Which part of a residential house lets out stale air?

12- State the danger of setting up a bee hive near the market?

13- Why do farmers who keep local breeds of goats spend less amount of money on treatment?

14- How is the energy change in a motor different from a generator?

15- Why does dew disappear during day time?

16- Why is a biogas digester tightly sealed?

17- Apart from getting food, give one other way in which goats benefit from plants.

18- Name the electric symbol shown below.



19- How are webs useful to spiders?

20- State the danger of cleaning the ear using a sharp object.



21- What type of manure is got from animal wastes?

22- Give any **one** adaptation of eagles to their mode of feeding.

23- In which way can water be made clean for washing?

24- How are cilia important in the nose?

25- Which body organ enables a P.7 candidate to remember what was taught during examinations?

26- To which body system does the uterus belong?

27- How is food and nutrition as an element of PHC important?

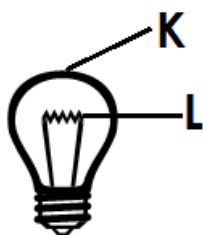
28- State any **one** mineral salt responsible for strengthening bones.

29- How are gills useful to fish?

30- Which component of soil is formed by decomposition?



Use the diagram below to answer questions 31 and 32.



31- Why is part L coiled?

32- Why is part K made up of glass?

33- Okello's child has the following signs; sunken eyes and dry mouth lips.
What health problems is the child having?

34- Write e.m.f in full.

35- How is uranium used as an energy resource?

36- At what time of the day does sea breeze take place?

37- Name the method of separating seeds and stones.

38- State the law of magnetism.

39- Why is planting usually done in the wet season?

40- In which **one** way can the spread of polio be prevented?



SECTION B: 60 MARKS

Questions **41** to **55** carry four marks each.

41- Match correctly.

Electrical resistance	amperes
Electric current	ohms
Voltage	decibels
Sound	volts

- a) Electrical resistance _____
- b) Electric current _____
- c) Voltage _____
- d) Sound _____

42- Name any **two** raw materials needed for photosynthesis.

(i) _____

(ii) _____

(b) Give a reason why photosynthesis is only possible during day time.

(c) How is photosynthesis important to people?

43- Name the kind of accident whose first aid involves

(a) The use of cold water _____

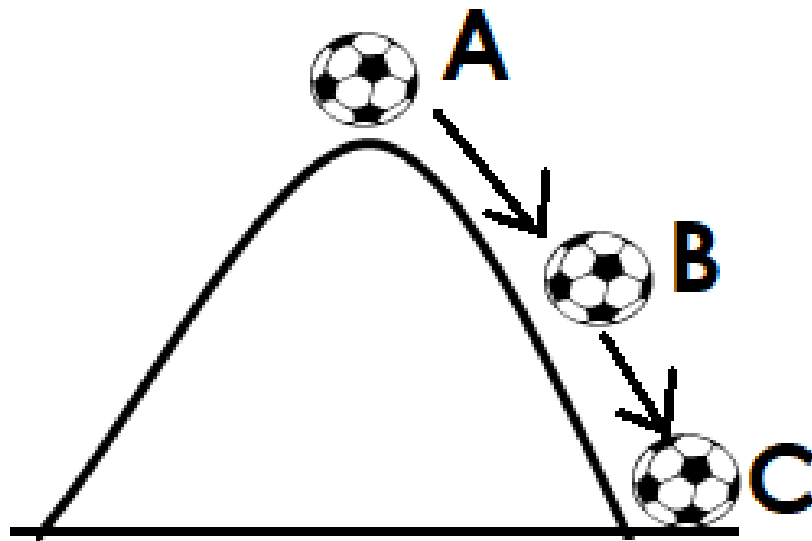
(b) Kiss of life _____

(c) The use of splints _____

(d) The use of RICE _____



44- Use the diagram below to answer questions that follow.



(a) Name the type of energy possessed by the ball at;

(i) A _____

(ii) B _____

(b) Which ball has the least potential energy?

(c) Which force enables the ball to move from part B to point C?

45- (a) Write LPG in full.

(b) How does riding of bicycles conserve fossil fuels?

(c) Give **one** example of solid fossil fuel.

(d) State any **one** danger of using fossil fuels.

46- (a) Name any **one** type of pollination in flowering plants.

(b) Mention any **two** characteristics of insect pollinated flowers.

(i) _____

(ii) _____

(c) What happens to ovules after fertilization?



47- (a) Apart from synovial fluids, what else reduces friction at a joint?

(b) How is cranium important in the human body?

(c) Apart from the cranium, name **one** other protective bone

(d) What type of skeleton do rats have?

48- Use the diagram below to answer questions that follow.



(a) Name the part marked L.

(b) How is part marked K useful to the above organism?

(c) To which group of invertebrates does the above organism belong?

(d) Which disease is spread by the above organism?

49- Give any **two** reasons why farmers prefer rearing rabbits to cattle.

(i) _____

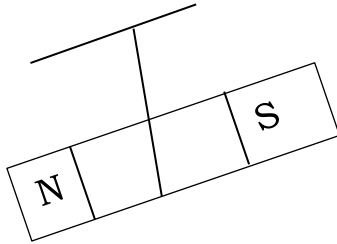
(ii) _____

(b) State any **one** reason why farmers rear rabbits.

(c) Which disease of rabbits affects people?



50- (a) Name the property of magnet shown in the diagram below.



(b) Why is it difficult to separate pins from nails?

(c) How are magnets useful to doctors?

(d) How can the strength of induced magnets be increased?

51- (a) Which energy resource is replaced naturally by water cycle?

(b) Name any **one** physical process involved in water cycle.

(c) In which **one** way are plants used as energy resources?

(d) How are water waves useful to people?

52- Complete the table correctly.

Components of air	percentage in the atmosphere
Oxygen	ii) _____
i) _____	78%
Rare gases	iii) _____
iv) _____	0.03%

53- (a) Name any **two** products got from cattle without killing them.

(i) _____

(ii) _____

(b) Give any **one** dairy breed of cattle.

(c) How does a lactometer detect presence of water in milk?

54- (a) Name **two** parts of the digestive system where digestive juice are not produced.

(i) _____

(ii) _____

(b) Apart from killing germs, give **one** other function of hydrochloric acid.

(c) Which digestive disorder is prevented by proper chewing of food before swallowing?

55- Use the diagram below to answer questions that follow.



(a) To which group of mammals does the above animal belong?

(b) How is the above animal able to locate food at night?

(c) How is the above animal useful to crops?

(d) How is the above animal adapted to flight?



END