THE

JEROX EDUCATIONAL SERVICES - KAMPALA

SPECIAL SET EXAMINATION 2024

INTEGRATED SCIENCE

Time Allowed: 2 Hours 15 Minutes

Random No.						Personal No.		

CANDIDATE'S NAME: .....

CANDIDATE'S SIGNATURE: .....

DISTRICT NAME:.....

Read the Following Instruction Carefully:

1. This paper has two sections **A** and **B**.
2. Section **A** has **40** question **(40 marks)** and section **B** has **15** questions **(60 marks)**.
3. Answer **all** questions. **All** answer to both sections **A** and **B** must be written in the spaces provided.
4. All answer must be written using a **blue** or **black** ball point pen or ink. Any work written in pencil other than graphs and diagrams will not be marked
5. Un necessary changes of work may lead to loss of marks.
6. Any handwriting that cannot easily be read may lead to loss of marks.
7. Do not fill anything in the boxes indicated; "**For examiners**" "**Use only**" and those inside the question paper

FOR EXAMINER'S USE ONLY		
Qn. No	Mark	Exr's No.
1 – 10		
11 – 10		
21 – 30		
31 – 40		
41 – 50		
51		
52		
53		
54		
55		
TOTAL		

TURN OVER

SECTION A (40 MARKS)

(Questions **1** to **40**, carry **one** mark each)

1. Name the sense organ used for feeling.

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2. Give any **one** way of controlling the breeding of mosquitoes at home.

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3. State any **one** importance of seed dispersal in the environment.

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4. Why do cattle farmers wash the udder of cows with warm water before milking?

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5. Give any **one** difference between arachnids and insects.

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6. State any **one** way of conserving non-renewable resources in the environment.

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7. Which part of a flower receives pollen during pollination?

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8. Why are people encouraged to conserve swamps in the environment?

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9. Give any **one** effect of HIV/AIDS to a family.

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10. How are hard materials like a cob of a danger when used in water borne toilets?

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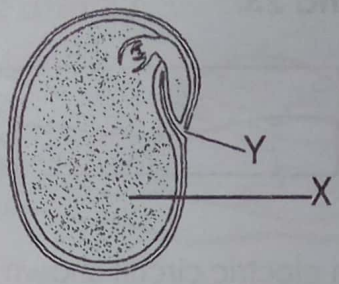
11. Name any **one** viral cattle disease.

The diagram below is of a bean seed. Use it to answer questions 12 and 13.



12. Name part marked **X**.

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13. How is part marked **Y** important to a bean seed shown in the diagram above?

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14. Give any **one** example of First Aid that can be given to a victim of nose bleeding.

---

15. How does the bad air from a VIP Latrine move out through the vent pipe?

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16. Give **one** function of the liver in the human body.

---

17. State any **one** example of a breed of cattle kept for its milk production.

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18. Name the addictive drug found in tobacco smoke.

---

19. What type of current electricity is got from burning fuels?

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20. Give the function of the component above in an electric circuit.

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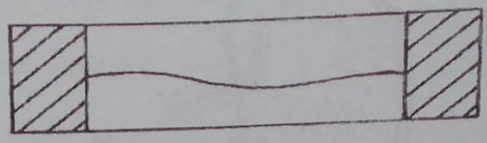
21. Mention any **one** example of a poultry vice.

The diagram below shows a component of an electric circuit. Use it to answer questions 22 and 23.



22. Identify the component of an electric circuit shown in the diagram above.

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23. State any **one** way of preventing diseases without using drugs.

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24. Give a reason why farmers mulch their banana plantations.

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25. Why is a lion seen lying in grasslands and yet it does not eat grass?

---

26. Which deficiency disease is likely to attack a child who lacks vitamin D in his/her diet?

---

27. How does a chameleon benefit from changing its skin colour?

---

28. How are feathers useful to birds?

---

29. Give the meaning of the term "**photosynthesis**".

---

30. What force is reduced by making rough surfaces smooth?

---

31. How are incisor teeth adapted to their function?

The diagram below shows an example of an invertebrate. Use it to answer questions 32 and 33.

32. Use an arrow and letter **T** to show the tentacles.

33. Give the danger of the invertebrate shown in the diagram above.

---

34. State any **one** similarity between the valves in veins and the kink in a clinical thermometer.

---

35. How is demography important to a country like Uganda?

---

36. What do we call a uniform mixture of two or more metals?

---

37. Mention any **one** way of controlling ticks in cattle.

---

38. How important is a skull to the human body?

---

39. State any **one** way of promoting proper hygiene at home.

---

40. Give any **one** example of an insulator of heat.

SECTION B (60 Marks)

(Questions **41** to **55**, carries **four** marks)

41. (a) Name any **two** processes that increase carbon-dioxide gas in the atmosphere.

(i) _____

(ii) _____

(b) How is carbon-dioxide gas useful to;

(i) People? _____

(ii) Animals? _____

42. (a) Give any **two** examples of farm records.

(i) _____

(ii) _____

(b) State any **two** importance of proper keeping of records on a farm.

(i) _____

(ii) _____

43 (a) Give any **two** ways electricity is useful in solving day to day problems.

(i) _____

(ii) _____

(b) State any **two** ways electricity can be of a danger to people.

(i) _____

(ii) _____

44. **The diagram below shows an example of a climbing plant. Use it to answer the questions that follow.**

(a) Identify the method of climbing shown in the diagram above.

(b) Why does the plant shown in the diagram above climb upright plants?

(c) Apart from the above method of climbing, name any other **two** methods plants with weak stems use to climb upright plants.

(i) ---

(ii) ---

45. (a) Give the meaning of the term "**skeleton**".

(b) Mention any **two** importance of a skeleton to animals.

(i) ---

(ii) ---

(c) State **one** way of maintaining the proper working of the human skeleton.

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46. **The table below shows deficiency diseases, causes and signs with missing information. Fill in the missing gaps.**

Deficiency	Cause	Sign
Kwashiorkor	Lack of proteins	(i) ----------
(ii) ----------	Lack of vitamin C	(iii) ----------
Goitre	(iv) ----------	Swelling in the neck

47. (a) Give any **two** components of blood.

(i) ---

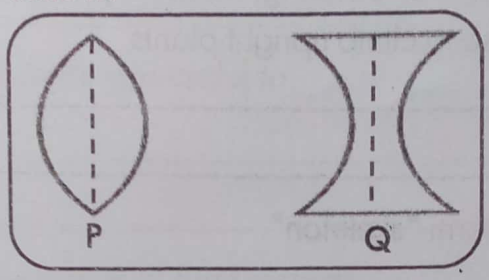
(ii) ---

(b) State **one** function of blood in the human body.

(c) Mention any **one** way of keeping the circulatory system in a proper working condition.

_____

48. **The diagram below shows two types of lenses. Use it to answer the questions that follow.**



(a) Identify the lenses labelled **P** and **Q**.

(i) **P** _____

(ii) **Q** _____

(b) How do the above lenses affect light rays passing through them?

(i) **P** _____

(ii) **Q** _____

49. (a) Give any **two** ways animals depend on plants.

(i) _____

(ii) _____

(b) State the main source of energy on Earth.

_____

(c) Give any **one** example of decomposers in the environment.

_____

50. (a) Mention any **one** cause of dehydration among babies.

_____

(b) Give any **two** signs of dehydration among babies.

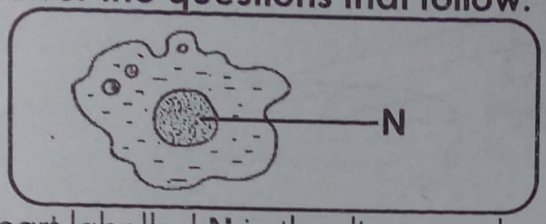
(i) _____

(ii) _____

(c) Why are dehydrated babies given **ORS** to drink?

_____

The diagram below shows an example of a single celled organism. Use it to answer the questions that follow.



51. (a) Name the part labelled **N** in the diagram above.

_____

(b) How does the organism shown in the diagram above reproduce?

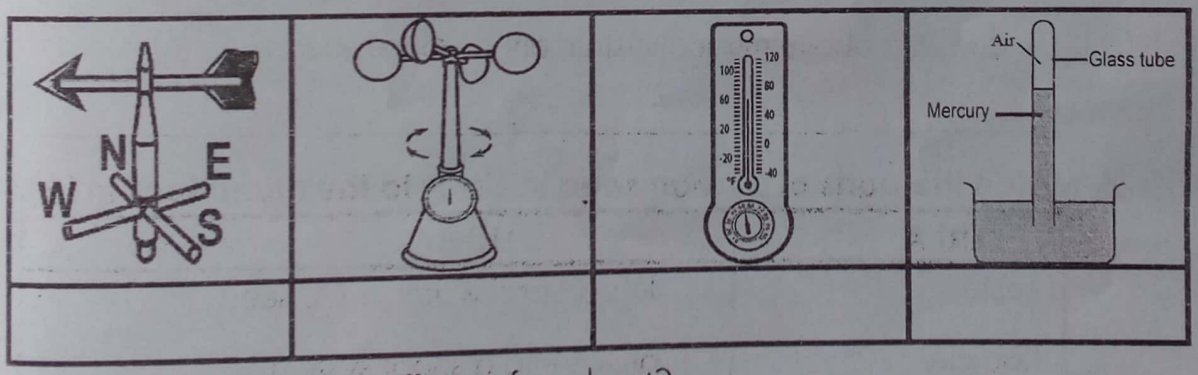
_____

(c) Give any **two** examples of organisms that have such a structure.

(i) _____

(ii) _____

52. **Name the weather instruments shown below.**



53. (a) How is temperature different from heat?

_____

_____

(b) State any **one** effect of heat on metals.

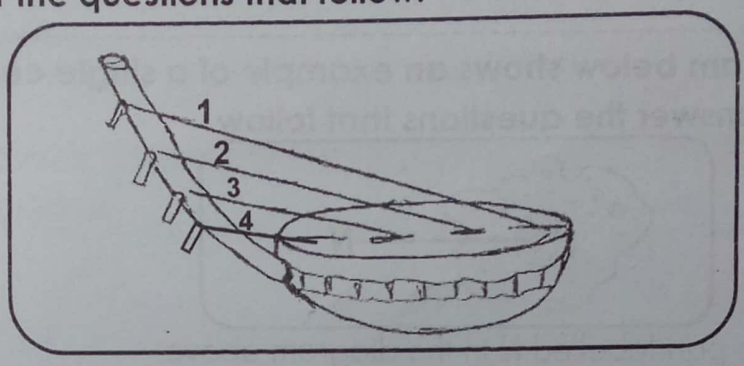
_____

(c) Mention the **two** temperature scales.

(i) _____

(ii) _____

54. **The diagram below shows an example of a musical instrument. Use it to answer the questions that follow.**



(a) To which group of musical instruments does the one shown in the diagram above belong?

(b) **Which strings above will produce sound of;**

(i) The highest pitch?

(ii) The lowest pitch?

(c) How does the above musical instrument produce sound?

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55. **Match the parts of a bean seed in List A to their functions in List B.**

List A	List B
Testa	lets air and water in the seed.
Radicle	grows into a shoot system.
Plumule	grows into a root system.
Micropyle	protects the internal parts of the seed .

(i) Testa _____

(ii) Radicle _____

(iii) Plumule _____

(iv) Micropyle _____