UGANDA NATIONAL EXAMINATIONS BOARD

PRIMARY LEAVING EXAMINATION

2019

INTEGRATED SCIENCE

Time Allowed: 2 hours 15 minutes

Index No.	Random No.						Personal No.		

Candidate's Name: .....

Candidate's Signature: .....

School Random No. .....

District ID: .....

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. The paper has **15 printed pages**.
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 graphs and diagrams will **not** be marked.
5. Unnecessary **changes** in your work and handwriting that cannot easily be read may lead to **loss of marks.**
6. Do **not** fill anything in the boxes indicated: **"For Examiners' use only"** and those 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		

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SECTION A: 40 MARKS

Questions 1 to 40 carry one mark each.

1. Name the source of solar energy.

   .....

2. Which vector spreads relapsing fever to people?

   .....

3. State any **one** use of a razor blade in promoting personal hygiene.

   .....

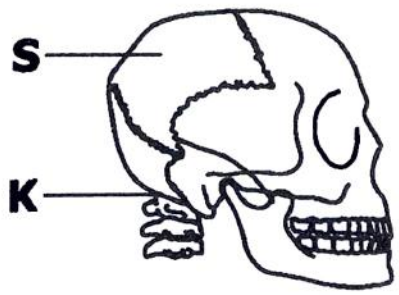
4. Give any **one** example of a biological change in plants.

   .....

5. Which group of cold blooded vertebrates undergo internal fertilization?

   .....

The diagram below is of a human skull and a neck vertebra. Use it to answer questions **6** and **7**.



6. Name the movable joint at **K**.

   .....

7. Which delicate organ is protected by **S**?

   .....

8. State the type of cattle kept to provide labour on a farm.

.....

9. What type of objects do not form shadows?

.....

10. Why does water drain faster in sand soil than clay soil?

.....

.....

11. How is the eardrum useful in the process of hearing?

.....

12. Write down any **one** activity done to seedlings during hardening off.

.....

13. State any **one** characteristic of incisor teeth which makes them suitable for their function.

.....

14. How can the breeding of houseflies be controlled in our compounds?

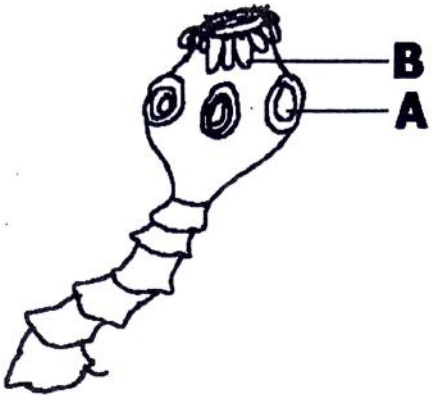
.....

15. Which deficiency disease is caused by lack of Vitamin B_1 in a diet?

.....

Turn Over

The diagram below shows a head of a tapeworm. *Study it and answer* questions **16** and **17**.



16. Name the part marked **A.**

.....

17. How is part **B** useful to the tapeworm?

.....

18. State any **one** characteristic of essential drugs.

.....

.....

19. Give any **one** way in which you can re-use plastic objects at home.

.....

20. How do carnivorous animals get energy from plants?

.....

21. State **one** characteristic of non-renewable resources.

.....

22. State any **one** difference in function between an artery and a vein.

.....

23. Give any **one** way in which having regular physical exercises is important to the human body.

.....

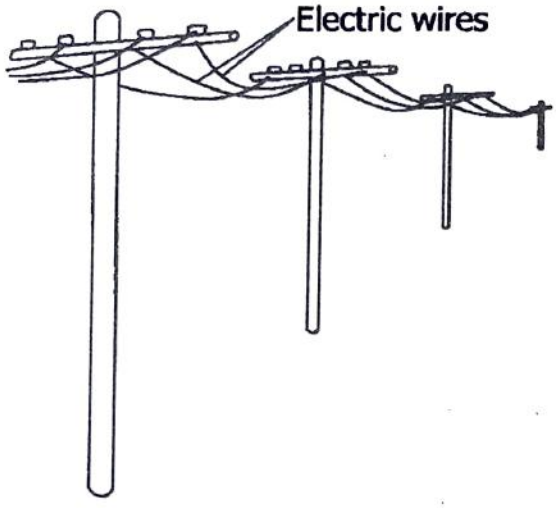
.....

24. How is a coconut seed adapted to water dispersal?

.....

.....

The diagram below shows electric wires under a certain weather condition. Study it and answer questions **25** and **26**.



25. In which kind of weather condition do the electric wires appear as shown above?

.....

26. Why do the electric wires appear as shown above?

.....

Turn Over

27. Why is alcohol used in a maximum and minimum thermometer?

.....

.....

28. How does mouth-to-mouth breathing help a victim of near drowning?

.....

.....

29. State the importance of the hairs in the nose during breathing.

.....

30. Which immunisable disease affects the liver?

.....

31. Apart from Light Sussex, name any **one** other exotic breed of chicken kept for meat.

.....

32. Which rabbit disease causes wounds in their ears?

.....

33. Give any **one** way in which the electric current produced by a dynamo can be increased.

.....

34. How does an object less dense than water behave in water?

.....

35. State any **one** condition which is favourable for bacteria to breed.

.....

36. Name any **one** root tuber crop which is propagated by use of seeds.

.....

37. Which group of invertebrates has segmented bodies and jointed legs?

.....

38. How does the PIASCY programme help school children to avoid being infected with HIV/AIDS?

.....

.....

39. Give any **one** reason why farmers sort seeds before planting them.

.....

40. Apart from the skin, give any **one** other human body organ that excretes excess water.

.....

SECTION B: 60 MARKS

Questions 41 to 55 carry four marks each.

41. (a) Name the component of air used for;

(i) respiration .....

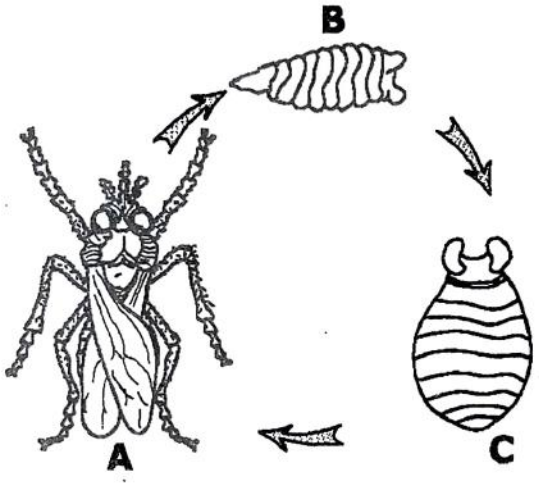
(ii) putting out fire .....

(b) State any **two** dangers of wind to people.

(i) .....

(ii) .....

42. The diagram below shows the life cycle of a vector. Study it and answer the questions that follow.



(a) Name the vector whose life cycle is shown above.

.....

(b) Name the stage marked **B.**

.....

(c) What does stage **A** feed on?

.....

(d) How does the vector whose life cycle is shown above spread disease?

.....

43. (a) Write down any **two** causes of nose bleeding.

(i) .....

(ii) .....

(b) Why is a person whose nose is bleeding advised to;

(i) lean back his/her head?

.....

(ii) pinch the soft part of his/her nose?

.....

44. In the table below, part **A** shows terms used to describe sound and part **B** has the meanings of the terms.

Part A	**Part B**
Volume	Number of vibrations per second
Pitch	Reflected sound
Frequency	Loudness or softness of sound
Echo	Highness or lowness of sound

Use the meanings in part **B** of the table to match the terms below.

(a) Volume .....

(b) Pitch .....

(c) Frequency .....

(d) Echo .....

45. (a) Write down any **two** reasons why toads are classified as amphibians.

(i) .....

(ii) .....

(b) In which **two** ways are fish different from amphibians?

(i) .....

(ii) .....

46. (a) Write down any **two** pieces of information which are collected in a health survey.

(i) .....

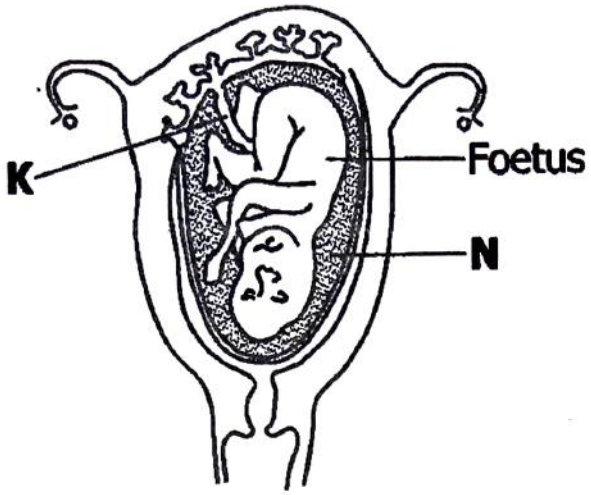
(ii) .....

(b) Give **two** reasons why carrying out a health survey in an area is important.

(i) .....

(ii) .....

47. The diagram below is of a developing foetus in a mother's womb. Study it and answer the questions that follow.



(a) Name the substance marked **N**.

.....

(b) Give **two** uses of the part marked **K** to the foetus.

(i) .....

(ii) .....

(c) On the diagram above, label the placenta.

48. (a) Give **one** example of an exotic breed of goats kept in Uganda.

.....

(b) Name **one** example of fibre got from goats.

.....

(c) State any **two** reasons why some farmers would prefer rearing goats to cattle.

(i) .....

.....

(ii) .....

.....

49. (a) State any **two** ways in which weeds can lower the yield of crops.

(i) .....

(ii) .....

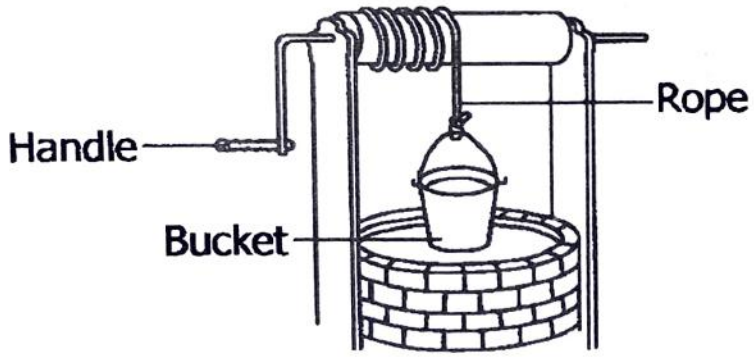
(b) State any **one** way in which the growth of weeds can be controlled in a garden.

.....

(c) Apart from controlling weeds, give any **one** other way farmers can care for their crops.

.....

50. The diagram below shows a simple machine. Study it and answer the questions that follow.



(a) To which type of simple machines does the machine above belong?

.....

(b) State any **one** use of the simple machine above.

.....

(c) Name any **one** force that makes work difficult when using the above machine.

.....

(d) Give **one** other example of a machine that belongs to the above type of simple machine.

.....

51. (a) Which digestive juice is produced in the mouth?

.....

(b) Write down any **two** things that happen to food in the mouth.

(i) .....

(ii) .....

(c) Which digestive disorder is prevented by including roughage in our diet?

.....

52. (a) State any **two** factors that should be considered when starting a tree growing project.

(i) .....

(ii) .....

(b) Give any **two** benefits of a woodlot to a community.

(i) .....

(ii) .....

53. (a) What substance in plants helps them make their own food?

.....

(b) How is the feeding in ferns different from that of mushrooms?

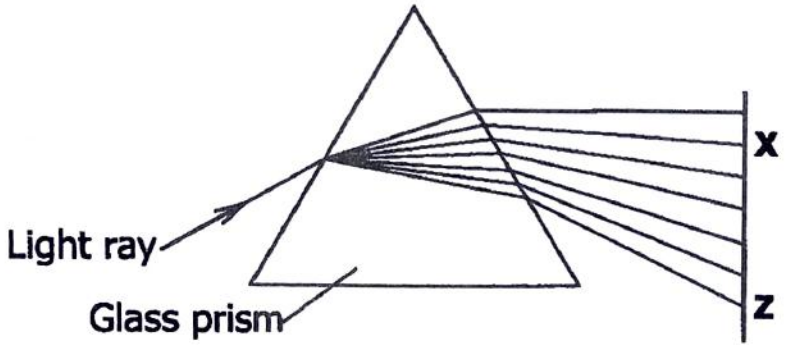
.....

(c) Apart from ferns, give any **two** other plants which are similar to mushrooms in their way of reproduction.

(i) .....

(ii) .....

54. The diagram below shows how light is split into seven colours using a glass prism. Study it and answer the questions that follow.



(a) Name the colours **X** and **Z.**

(i) **X** .....

(ii) **Z** .....

(b) Why do the light rays bend at different angles as they leave the glass prism?

.....

.....

(c) Why do we usually see the above band of seven colours in the sky when it is raining lightly?

.....

.....

55. (a) State any **two** signs of poor sanitation in a school.

(i) .....

(ii) .....

(b) Give any **two** diseases that can break out due to poor sanitation in a school.

(i) .....

(ii) .....

END