UGANDA NATIONAL EXAMINATIONS BOARD

PRIMARY LEAVING EXAMINATIONS

2020

INTEGRATED SCIENCE

Time allowed: 2 hours 15 minutes

Index No.	**Random No.**						**Personal No.**		

Candidate's name : .....

Candidate's signature : .....

School Random number : .....

District No. :

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 papers** altogether.
3. Answer **all** questions. **All** the answers for both sections **A** and **B** must be shown in the spaces provided.
4. **All** working must be done using a **blue** or **black** ball point pen or ink. Any work done in pencil will **NOT** be marked except drawings and diagrams.
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 table indicated: **"For examiners' use only"** and the boxes inside the question paper.

FOR EXAMINER'S 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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Turn over

SECTION A: 40 MARKS

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

1. Name the type of cloud which is the highest in the sky.

   .....

2. State any **one** way of controlling the spread of ring worm among children.

   .....

3. Which type of soil erosion creates deep channels in the ground?

   .....

4. Name the component of blood affected by the sickle cell disease.

   .....

5. What is the function of the endosperm of a maize grain?

   .....

The diagram below shows a change in state of matter. Use it to answer the questions **6** and **7**.

6. What is the state of matter at **Z**?

   .....

7. Name the process by which **Z** changes back to liquid.

   .....

8. Which part of a cow is affected by mastitis disease?

   .....

9. State the principle on which a periscope works.

   .....

10. State any **one** condition that favours the multiplication of bacteria.

    .....

11. Give any **one** example of a non-renewable energy resource.

    .....

12. State any **one** way in which the spread of germs through fingers can be controlled.

    .....

13. Which method of heat transfer does not need any form of matter?

    .....

14. State any **one** characteristic of a worker bee.

    .....

    The diagram below is of a musical instrument. Use it to answer questions **15** and **16**.

15. Name the group of musical instruments to which the instrument above belongs.

    .....

16. How can the pitch of the above instrument be varied?

    .....

    .....

17. How are legumes different from other dicotyledonous plants?

    .....

    .....

18. State the method used to find the volume of an irregular object.

    .....

19. Give any **one** way in which a school health club can promote health in their community.

    .....

    .....

20. State any **one** advantage of having proper housing for goats.

    .....

    .....

21. How does the skin cool down the human body temperature on a hot day?

    .....

    .....

22. State any **one** danger of teenage pregnancy to adolescent girls.

    .....

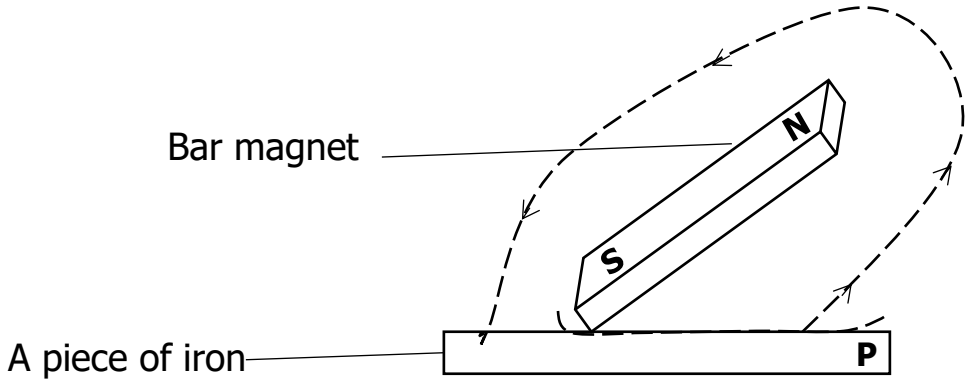
23. Give any **one** life skill that children need to develop in order to safe guard themselves against drug dependence.

    .....

24. State any **one** way in which the spread of hookworms can be prevented.

    .....

The diagram below shows a method of making a temporary magnet. Study and use it to answer questions **25** and **26**.



25. Name the method shown above.

    .....

26. What will be the pole at **P** after magnetization?

    .....

27. How does chlorine make water safe for drinking?

    .....

    .....

28. Name the type of lens used in a magnifying glass.

    .....

29. Apart from getting food, give any **one** other way in which rabbits benefit from plants.

    .....

30. Why are triceps and biceps muscles referred to as voluntary muscles?

    .....

    .....

Turn over

31. Apart from using medicine, state **one** other way of preventing the spread of coccidiosis in poultry.

    .....

32. Give any **one** characteristic of a bird of prey.

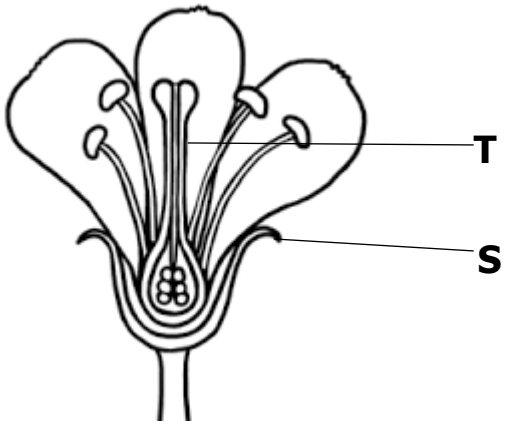
    .....

33. How do cockroaches spread diseases to people?

    .....

    .....

    The diagram below is of a flower. Use it to answer questions **34** and **35**.



34. Name the part labelled **T**.

    .....

35. Give the function of the part labelled **S** to a flower before it opens up.

    .....

36. Name the human respiratory disease whose signs are loss of weight, chronic cough and blood stained sputum.

    .....

37. State the digestive disorder which can be prevented when people chew food properly and eat right amount.

    .....

38. Give **one** reason why a person who has fainted should be placed in a cool and open space.

.....

39. Give **one** harmful effect of polythene bags to soil.

.....

.....

40. State the method which can be used to obtain salt that has dissolved in water.

.....

SECTION B: 60 MARKS

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

41. (a) What form of energy is stored in wood fuel?

……

(b) Name any **one** form of energy produced when wood burns.

……

(c) State **two** practices carried out at home to conserve wood fuel.

(i) ……

(ii) ……

42. (a) Apart from the vertebral column, give any **two** other parts of the Human skeleton used for protection.

(i) ……

(ii) ……

(b) Name the part protected by the vertebral column in the human body.

……

(c) Give any **one** health habit that helps to strengthen the human body.

……

……

43. (a) Apart from animals, mention two other agents of seed dispersal.

(i) ……

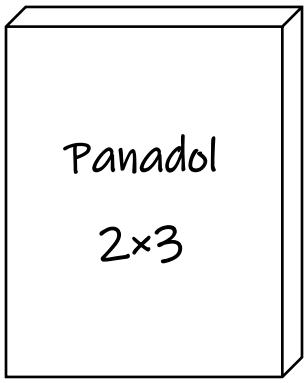
(ii) ……

(b) State any **two** characteristics of seeds dispersed by animals.

(i) .....

(ii).....

44. A patient was given a packet of drugs labelled with information as shown in the diagram below. Use it to answer the questions that follow.



(a) What name is given to such information written on a packet of drugs?

.....

(b) Give any **one** reason why such information is important to patients.

.....

(c) How many times a day is the patient supposed to take the drug?

.....

(d) The patient took the drug in the morning, for how many hours should the patient wait before taking the drug again?

.....

45. (a) State any **two** effects of heat gain on matter.

(i) ……

(ii) ……

(b) Give any **two** ways in which a blacksmith uses heat

(i) ……

(ii) ……

46. The table below shows human body organs, the system to which they belong and the organ function. Study and complete it correctly.

ORGAN	**SYSTEM**	**ORGAN FUNCTION**
Heart	Circulatory	…… ……
……	Excretory	Formation of urine.
Pancreas	……	Produces pancreatic juice
Epididymis	Reproduce	…… ……

47. (a) Name the group of simple machines to which each of the following tools belongs,

(i) a ladder ……

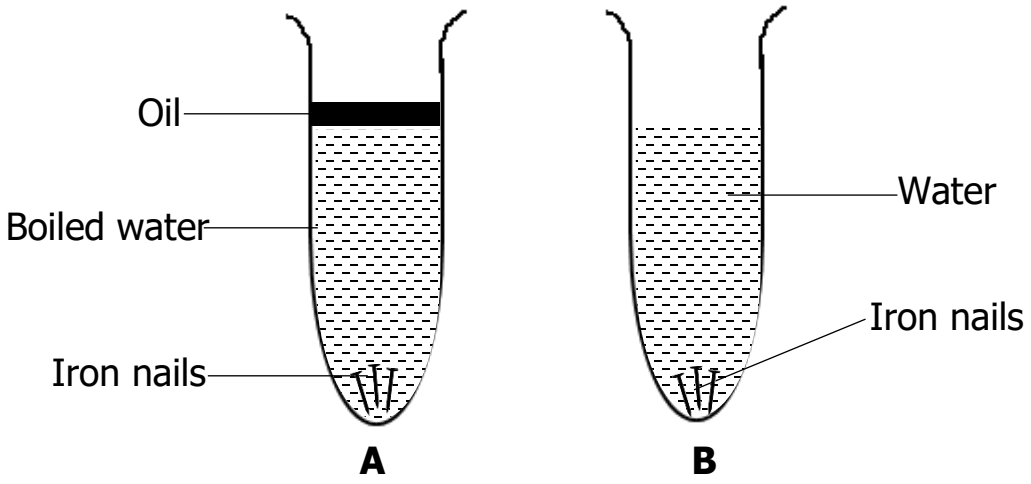
(ii) a panga ……

(b) Give any **two** ways in which simple machines make work easier.

(i) ……

(ii)……

48. The diagram below shows an experiment about rusting. Use the diagram to answer the questions that follow.



(a) In which of the containers will the iron rust after some days?

.....

(b) Why would the iron nails in the container you have identified rust?

.....

.....

(c) Give **one** reason why oil was poured in container **A**.

.....

.....

(d) What would happen to the nails if they were painted before being put in the containers?

.....

.....

49. (a) Name the type of immunity acquired through;

(i) recovery from illness .....

(ii) immunization .....

(b) Give any **two** roles of a family in promoting immunization in their area.

(i) .....

.....

(ii) .....

.....

50. (a) State **one** way in which cattle farming contributes to the development of leather industry.

.....

(b) Apart from leather industry, give any **one** other example of industry that uses cattle products.

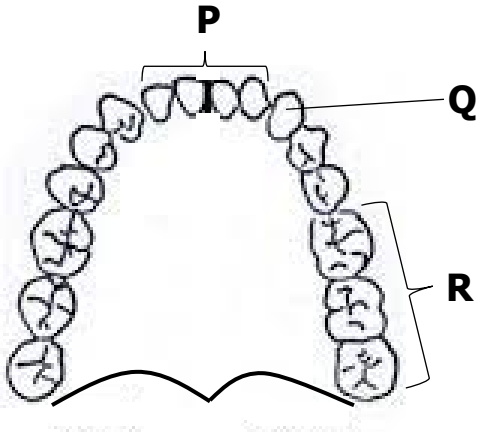
.....

(c) State any **two** ways in which farmers can improve on the quality of cattle products.

(i) .....

(ii) .....

51. The diagram below shows the arrangement of permanent teeth in the lower jaw of a human being. Study the diagram and use it to answer the questions that follow.



(a) Name the type of teeth marked **Q**.

……

(b) State the function of the types of teeth labelled;

P: ……

Q: ……

(c) Identify any **one** difference between the structure of the types of teeth labelled **Q** and **R**.

……

……

52. (a) Give any **two** reasons why farmers first plant some seeds in a nursery bed.

(i) ……

(ii) ……

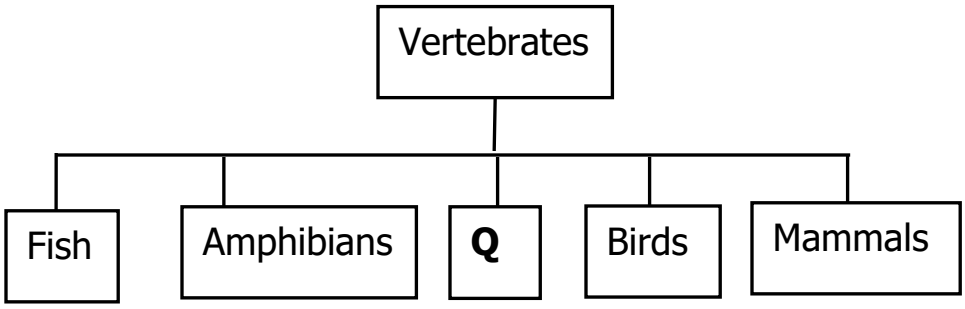
(b) State any **two** advantages of planting crops in rows.

(i) ……

(ii)……

Turn over

53. The table below shows classes of vertebrates. Study and use it to answer the questions that follow.



(a) Name the class of vertebrates represented by **Q**.

……

(b) Apart from having backbones, give **one** characteristic common to;

(i) all fish, amphibians and vertebrates in class **Q**.

……..

(ii) birds and mammals.

……

(c) State the difference in reproduction between vertebrates in class **Q** and the amphibians.

……

……

54. (a) Name the disease which results from the deficiency of vitamin C in human body.

……

(b) State any **two** signs of vitamin C deficiency disease in humans.

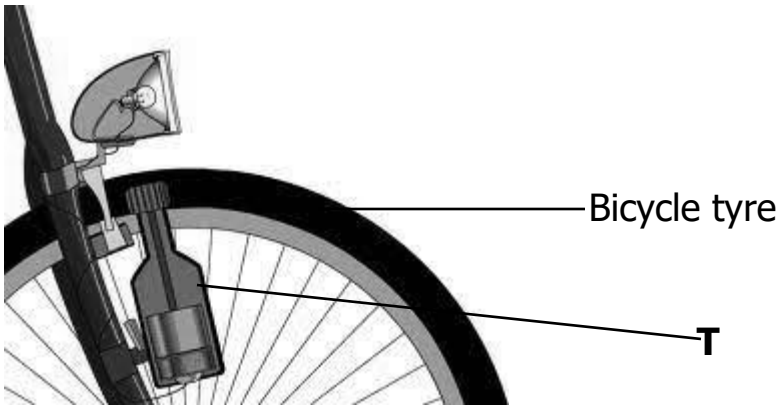
(i) ……

(ii) ……..

(c) Give any **one** example of food which gives us vitamin C.

……..

55. The diagram below shows an equipment on a bicycle that is used to produce electricity. Study and use it to answer the questions that follow.



(a) Name the equipment labelled **T**.

……

(b) Give the function of the bicycle tyre in producing electricity.

……

(c) State the energy change that takes place in equipment labelled **T** when it is in use.

……

(d) State **one** way in which the amount of electricity produced by the equipment labelled **T** can be increased.

……

……

END