

MAGIC EXAMINATIONS BOARD
PRIMARY LEAVING EXAMINATION
2020

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**. This paper has **16 printed pages**.
3. Answer **all** questions. All the working for both sections **A** and **B** must be shown in the space provided.
4. **All** working must be done using a **blue** or **black** ball point pen or ink. Any work written in pencil will **not** be marked.
5. Unnecessary **changes** in your work and handwriting that cannot be easily 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 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. Name any **one** domestic animal kept for milk production.

.....

2. Which type of germination does a bean seed undergo?

.....

3. Identify the main source of light in the environment.

.....

4. In which state of matter is maize flour?

.....

The diagram below is about good health habits. Use it to answer questions **5** and **6**.



5. Which element of Primary Health Care (PHC) is promoted in the diagram above?

.....

6. Why is clean water and soap used for cleaning hands after visiting toilets/latrines?

.....

7. Write **one** common characteristic which is in all insects?

.....

8. State any **one** law of reflection

.....

9. Why does sugar disappear when it is mixed in water?

.....

.....

10. Why are electric wires fixed loosely on poles during installation?

.....

.....



11. How is the absence of Vitamin B2 harmful to our health?

.....

.....

12. Where does respiration takes place in animals?

.....

13. Give **one** reason why a maize is called a fruit.

.....

14. State **one** way in which heat transfer by radiation important to crop farmers during dry season.

.....

.....

15. State any **one** function of ears to a deaf person.

.....

.....

16. Which component of soil is used as plant food?

.....

17. Why are the elderly given less proteins than children?

.....

.....

18. Mention **one** natural cause of a family failing to have enough food

.....

19. By what process does smoke move through the chimney?

.....

20. State any **one** use of electricity in a home.

.....



21. Name any liquid used in thermometers.

.....

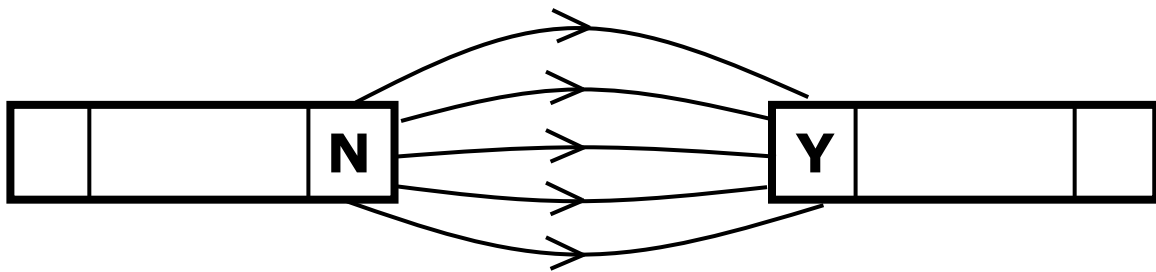
22. Write down any **one** main part of a flowering plant.

.....

23. Mention any **one** primary sex characteristic which occurs in both male female adolescents.

.....

Study the property of a magnet below and answer questions **29** and **30**.



24. Identify the property of magnet shown in the diagram above.

.....

25. Name the pole marked **Y** on the diagram above.

.....

26. How are perches important in a poultry house?

.....

.....

27. Give any **one** special characteristic of the air we breathe out?

.....

28. What is the function of human skull in the human body?

.....

29. Mention any **one** sign of measles

.....

30. State a reason why earthworms are usually seen coming out of the soil after it has rained?

.....

.....

31. In terms of machine, how is the hammer similar to the human arm?

.....

.....

32. Name the process through which plants make starch.

.....

33. How does a vent help to reduce smell in a VIP latrine?

.....

34. Why do some objects float on water?

.....

.....

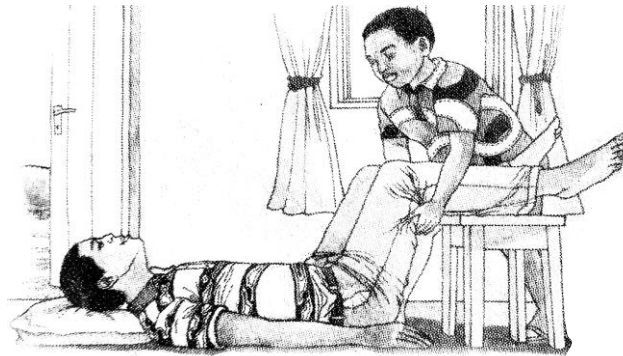
35. Name the physical process that changes ice to water.

.....

36. Mention **one** importance of geckoes in our homes.

.....

The diagram below demonstrates one of the ways of giving first aid.
Use it to answer questions **37** and **38**.



37. Which accident requires the first aid demonstrated above?

.....

38. State the **main cause** of the accident mentioned in 37 above.

.....

39. Identify any **one** importance of biological changes.

.....

40. In which **one** way are water pollutants dangerous to aquatic life?

.....

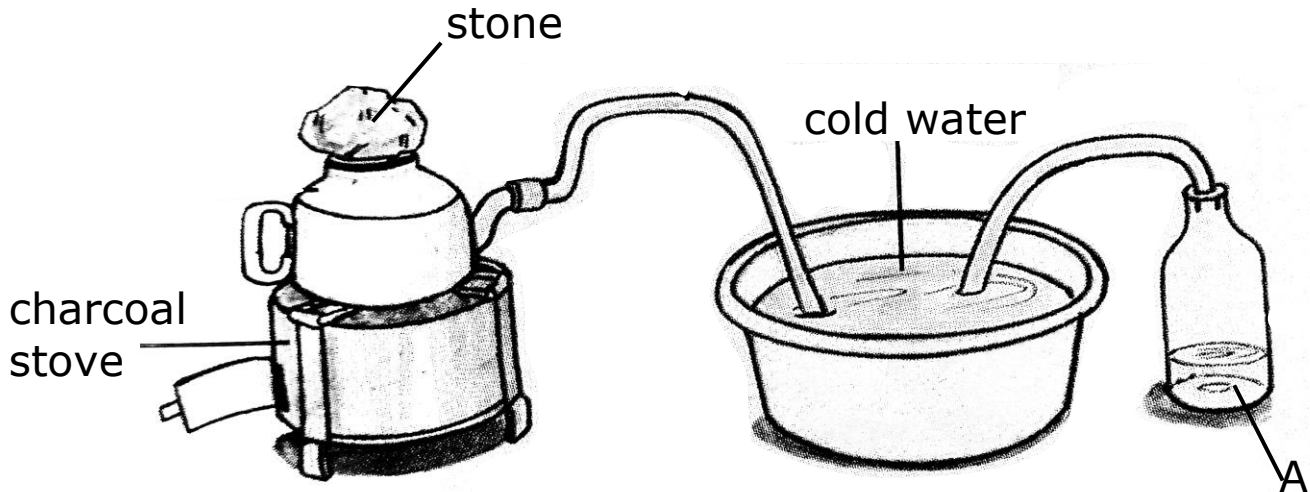


SECTION B: 60 MARKS

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

41. The diagram below shows one of the ways of obtaining **clean water**.

Use it to answer that follow.



(a) Name the method demonstrated above.

.....

(b) Why is the water obtained by the method named in (a) above not good for drinking?

.....


.....

(c) What scientific name is given to the liquid marked A?

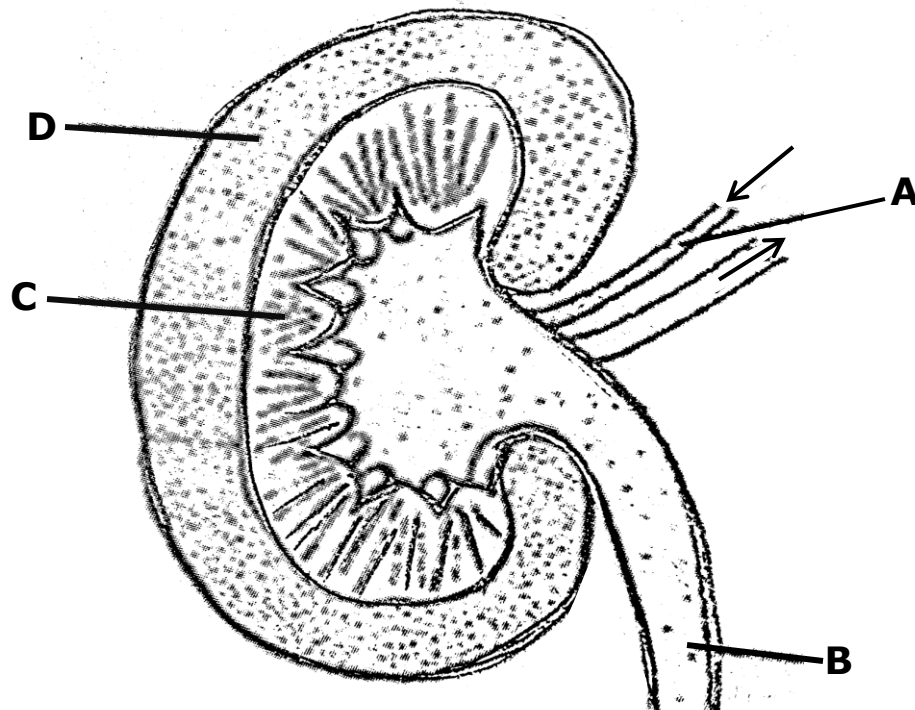
.....

(d) State **one** reason why boiling is the best way of obtaining safe water for drinking.

.....

42. (a) State any **two** causes of accidents in a home.
(i)
(ii)
(b) Mention any **one** danger of accidents in our community.
.....
.....
(c) Identify the term used to describe the first help given to a casualty.
.....
43. (a) Apart from decomposition, name any **one** other method of soil formation.
.....
(b) State any **two** ways of improving soil fertility.
(i)
(ii)
(c) How do leguminous plants increase soil fertility?
.....
44. (a) Write ORS in full. 
.....
(b) Mention the **two** solutes that are used to prepare ORS.
(i)
(ii)
(c) Give the **one** reason why water is referred to as a universal solvent?
.....

45. The diagram below shows a cross section of a **human kidney**. Use it to answer questions that follow.



- (a) Name the parts marked with letter B and C

(i)

(ii)

- (b) What happens to blood in the part marked D?

.....

- (c) How is part A important to the kidney?

.....

46. (a) Identify the type of digestion that involves the action of enzymes.

.....

(b) State the importance of saliva in the process of digestion.

.....

.....

(c) Mention any **two** digestive disorders.

(i)

(ii)



47. (a) Write down any **two** exotic breeds of rabbits.

(i)

(ii)

(b) Identify any **one** type of a rabbit hutch.

.....

(c) Why should a rabbit hutch be raised above the ground?

.....

48. (a) Give any **two** importance of drug prescription to patients.

(i)

(i)

(b) Why should drugs be kept out of children's reach?

.....

.....

(c) State any **one** danger of self-medication.

.....

.....

49. (a) Give **one** example of each of the given types of mammals:

(i) pouched mammals.

.....

(ii) primates.

.....

(b) How are marine mammals able to stay in cold conditions under water?

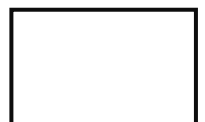
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.....

(c) What characteristics make mammals different from all other vertebrates?

.....

.....



50. (a) Identify the diarrheal disease characterized by blood stains in the stools.

.....

(b) Name the vector that spreads the above mentioned disease.

.....

(c) Give any **two** ways of controlling the spread of the above disease.

(i)

.....

(ii)

.....

51. (a) What are anti-social behaviours?

.....

.....

(b) Identify any **two** causes of anti-social behaviours in the community.

(i)

.....

(ii)

.....

(c) State any **one** way in which anti-social behaviours can be controlled in the community.

.....

.....

52. Use the list of food stuffs given below and answer the following questions:

beans rice cabbage milk oranges

(a) Give **two** food stuffs that are a source of proteins.

(i)

(ii)

(b) How are cabbages useful in one's diet?

.....

.....

(c) Why would you regard the list of the foods given above a balanced diet?

.....

.....

52. (a) Give any **two** uses of heat to people.

(i)

(ii)

(b) How does heat move from one point to another in a metal?

.....

.....

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

.....

.....



53. The diagram below shows a boy taking water using a straw. Use it to answer questions that follow.



(a) Name the property of air is demonstrated above?

.....
.....

(b) Name any other **two** properties of air.

- (i)
(ii)

(c) How is air in motion important to a crop farmer?

.....
.....

54. (a) Name the type of simple machines we use in splitting, cutting and peeling.

.....

(b) Give **two** example of the type of machines you have named in (a) above.

(i)

(ii)

(c) Give **one** way machines simplify work.

.....

.....

55. (a) Give the reason why blood goes to the following organs;

(i) lungs:

.....

.....

(ii) liver:

.....

.....

(b) Give any **one** importance of blood circulation.

.....

(c) State any **one** way one can increase the volume of blood in the body.

.....

