



SURE KEY PRIMARY SCHOOLS LEAVING EXAMINATIONS. 2020

INTERGRATED 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. This paper has two sections: **A** and **B**.
Section **A** has **40** questions and Section **B** has **15** questions. The paper has **12 printed pages** altogether.
2. Answer **all** questions. **All** answers to both Sections **A** and **B** must be written in the spaces provided.
3. **All** answers must be written using a **blue** or **black** ball point pen or ink. Any work written in pencil will **not** be marked.
4. Unnecessary **changes** in your work may lead to **loss** of marks.
5. Any 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 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. Photosynthesis refers to the process by which plants make their own food.
What does the word '*photo*' mean in the above statement?

.....

2. Name any **one** water pollutant.

.....

3. Why are ventilators put above windows on a permanent house?

.....

.....

4. State **one** reason why air in the soil is important.

.....

5. How is the small intestine adapted to its function in the digestive system?

.....

.....

6. Name any **one** solute used in making Oral Rehydration Solution (ORS).

.....

7. Apart from nectar, name any **one** other material bees collect from flowers.

.....

8. Which germ causes malaria?

.....

9. State any **one** reason for juvenile delinquency.

.....

10. Which food deficiency disease is characterized by swollen moon face, and pot belly?

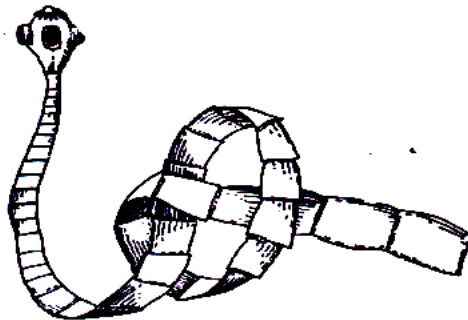
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11. Peter's sperms died, he doesn't produce. What was missing in his diet?

.....

Below is a diagram of a tapeworm. Use it to answer questions **13** and **14**.



12. What general name is give to the head of the tape worm above?

.....

13. Give a reason why a tape worm is called a parasite.

.....

.....

14. Why is it difficult to breath in a room full of smoke than in an open compound?

.....

.....

Below is a diagram of a safety equipment. Use it to answer question **16**.



15. Why is the above equipment painted with bright colours?

.....

.....

16. Mention any **one** way in which supply of clean water in rural areas is being improved.

.....

17. Which part of the mammalian ear balances pressure?

.....

18. How does temperature affects the pitch of sound?

.....

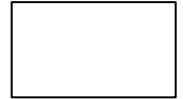
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19. Give **one** difference between a cassava tuber and an irish potato tuber.

.....

20. What is the use of tentacles on a snail?

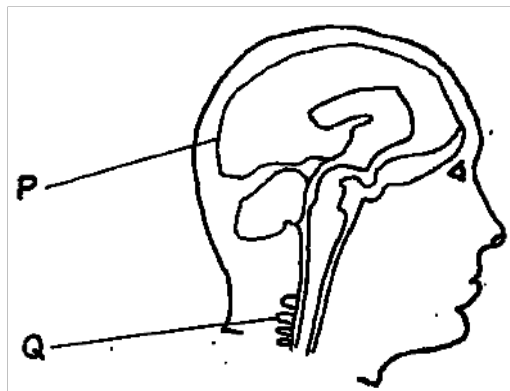
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21. How do grasshoppers produce sound?

.....

Use the diagram below to answer the questions **22** to **23**.



22. What name is given to part marked **P** on the above diagram?

.....

23. State the main function of part marked **Q** on the above diagram.

.....

24. Name any **one** sense organs from the diagram above by which one can tell that there is something burning.

.....

25. Name the device at home that is used in grinding millet

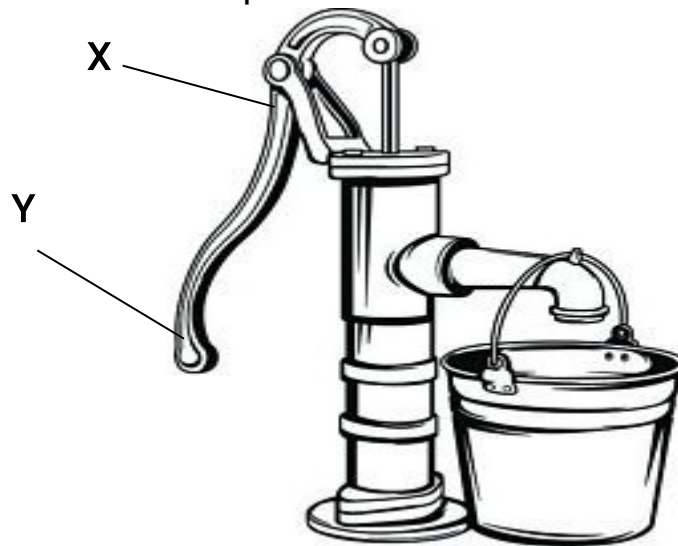
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26. Why is spacing of children in the family important?

.....

.....

The diagram below shows a simple machine. Use it to answer question 26 and 27.



27. Name the resource obtained by using the above machine.

.....

28. Why would you advise the user to hold part Y instead of X when using the above machine?

.....

.....

29. Mention any **one** mineral replaced into the soil by addition of inorganic manure?

.....

30. State **one** way reptiles can be useful to people.

.....

.....



31. Identify **one** way in which red blood cells are adapted to transporting oxygen in the human body.

.....

.....

32. Give **one** economic effect of ticks to livestock farmers.

.....

33. How is the breathing of a spider different from that of a whale?

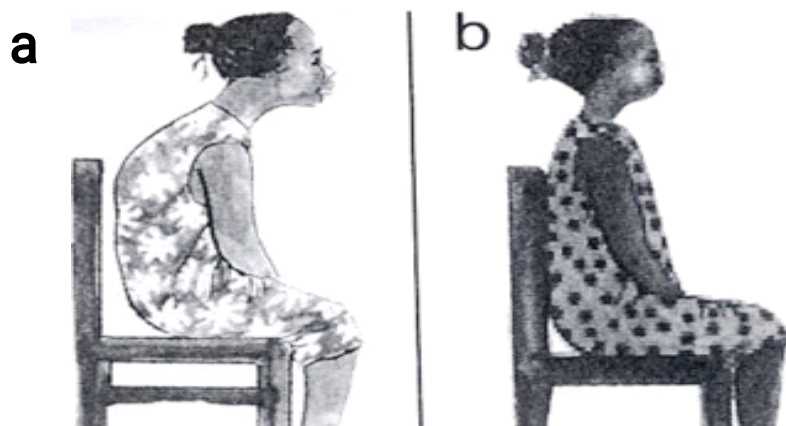
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34. Give **one** skeleton disorder caused by tearing of the muscle.

.....

The diagram below shows two pupils seated on chairs in different ways. Use it to answer questions **35** and **36**.



35. What is more likely to happen to the pupil in **a** if she continues sitting in class in the way she is seated on a daily basis?

.....

36. State **one** advantage of sitting in a way the pupil in **b** is seated.

.....

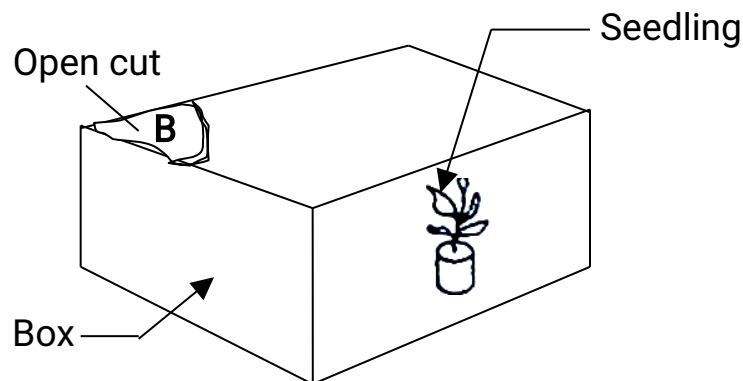
37. What process can be used to separate suspended impurities in water?

.....

38. Give **one** organ of the digestive system which is not part of the alimentary canal.

.....

The diagram below shows a seedling in a box. Use it to answer questions **39** and **40**.



39. What colour will the leaves of the seedling be if left in this box with **B** covered for a week?

.....

.....

40. Give a reason for your answer in 39 above.



SECTION B: 60 MARKS
Questions 41 to 55 carry four marks each

41. (a) What is weaning?

.....

.....

(b) Suggest any one advantage of breast feeding to;

(i) a baby

.....

(ii) a mother

.....

(c) Why is it advisable for a pregnant woman to eat food rich in proteins?

.....

42. (a) What is the difference between a fruit and a seed?.

.....

.....

(b) Give **one** example of each of the following.

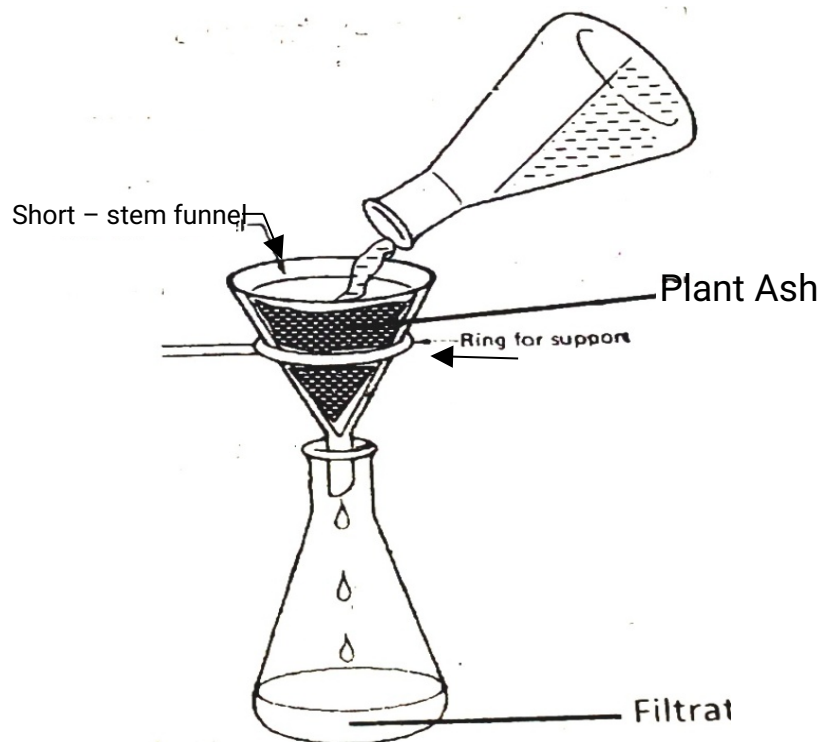
(i) Drupe

(ii) Pome

(c) Give any **one** characteristic of fruits dispersed by animals

.....

43. The diagram below shows a method of obtaining local salt from ash. Use it to answer questions that follow.



- (a) What is the role of water which is poured into the plant ash?

.....

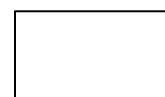
- (b) Why does the filtrate test sour?

.....

- (c) Give **two** uses of the filtrate obtained in the above method.

(i)

(ii)



44. Breathing is the inhaling and exhaling of air. Study the table below and answer the questions that follow.

<i>Composition of air</i>	Exhaled air by %	Inhaled air by %
Carbon dioxide	4%	0.03%
Oxygen	16%	20.9%
Nitrogen	78%	78%
Rare gas	0.97	0.97%

- (a) Which component greatly increases in the atmosphere due to breathing?

.....

- (b) Why is the oxygen we breathe out less than the one we breathe in?

.....

.....

- (c) Why is there no change in the levels of nitrogen as shown in the table?

.....

.....

- (d) Mention the main product of respiration.

.....

45. (a) Give **one** reason why water is not good to stop petrol fires.

.....

.....

(b) Write down any **two** possible methods used to stop petrol fires.

(i)

(ii)

(c) State any **one** danger caused by petrol fires.

.....

46. The diagram below is of a food chain. Study it and answer the questions that follow.



(a) What do the following represent in the above food chain?

(i) Diatoms

(ii) Fish

(b) State what happens to the fish when ducks increase in number.

.....

(c) Give the general name given to fish, duck and man.

.....

47. (a) Name any **two** components of soil.

(i)

(ii)

(b) Mention any **one** importance of soil in the environment.

.....

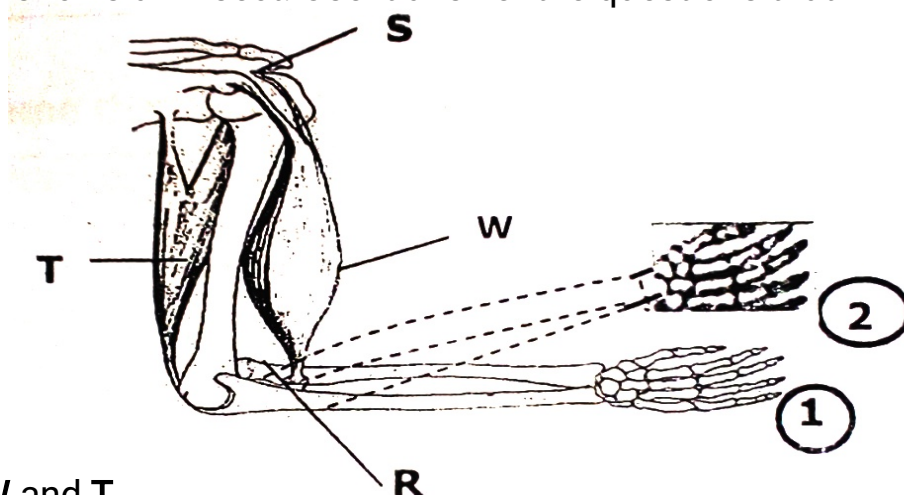
(c) Why does water take long to pass through clay soil?

.....

48. The table below shows immunization schedules. Complete it by filling the missing information.

Disease	Age	Vaccine	Site
Polio	(i)	Polio vaccine	Mouth
(ii)	3½ months	DPT vaccine	Left upper thigh
Measles	9 months	(iii)	Left upper arm
Tuberculosis	At birth	BCG vaccine	(iv)

49. The diagram below shows an insect. Use it to answer the questions that follow.



(a) Name muscle **W** and **T**.

(i) **W**

(ii) **T**

Turn Over

- (b) What happens to **T** and **W** when the hand is lifted from position **1** to **2**?

.....

.....

- (c) What difference is there between the movement of **S** and **R**?

.....

.....

50. (a) *Some diseases can be controlled without using drugs.*

Give **one** example of such diseases.

.....

- (c) How would you treat the above disease?

.....

- (b) Give any **two** reasons why it is not good to share drugs which are prescribed.

(i)

(ii)

51. (a) Give **one** advantage of bacteria in the purification of sewage.

.....

- (b) State **one** condition under which bacteria breed.

.....

- (c) What is the difference between the organisms that cause AIDS and those that cause gonorrhea?

.....

.....

(d) State any **one** way in which the spread of gonorrhea can be prevented.

.....

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

(i)

(ii)

(b) Write **one** way of saving electricity at home.

.....

(c) Give **one** danger caused by electricity.

.....

53. (a) Name any **two** types of clouds.

(i)

(ii)

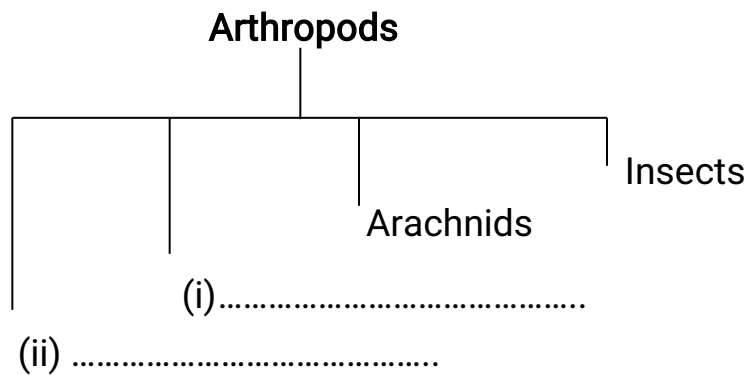
(b) Mention any **one** importance of clouds.

.....

(c) Name the process by which clouds are formed.

.....

54. (a) Complete the drawing below by filling in the missing parts.



- (b) How are insects different from arachnids?

.....

.....

- (c) Besides a spider, give any other example of an arachnid.

.....

55. In **four** sentences, explain how you can locally obtain local bear at home.

- (i)
-
- (ii)
-
- (iii)
-
- (iv)

