



SURE KEY EXAMINATIONS BOARD
PRIMARY SEVEN PLE PREPARATION EXAMINATION SET III.
2022

INTEGRATED SCIENCE

Time Allowed: 2 hours 15 minutes

Index No.					Personal No.		

Candidate's Name:

Candidate's Signature:

School Name:

District Name:.....

Read the following instructions carefully:

1. Do not forget to write your **school** or **district name** 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** altogether.
3. Answer **all** questions. **All** the working 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.
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 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 the gas used for preserving sodas.

.....

2. State the liver disease caused by excessive drinking of alcohol.

.....

3. Which condition requires the use of tepid sponging as a way of giving first aid?

.....

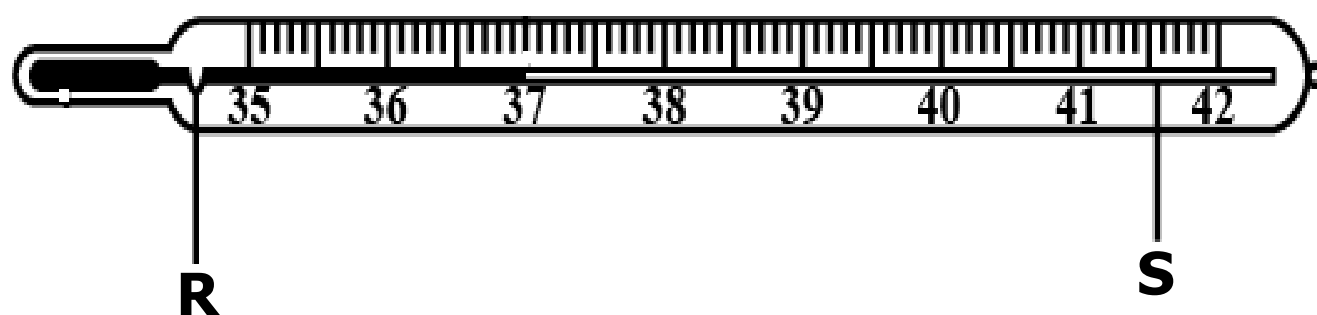
4. Name the group of crops that produce grains on cobs.

.....

5. State any **one** way of protecting water sources from pollution.

.....

The diagram below is of a **clinical thermometer**. Study and use it to answer question **6** and **7**.



6. Name the part marked **S**.

.....

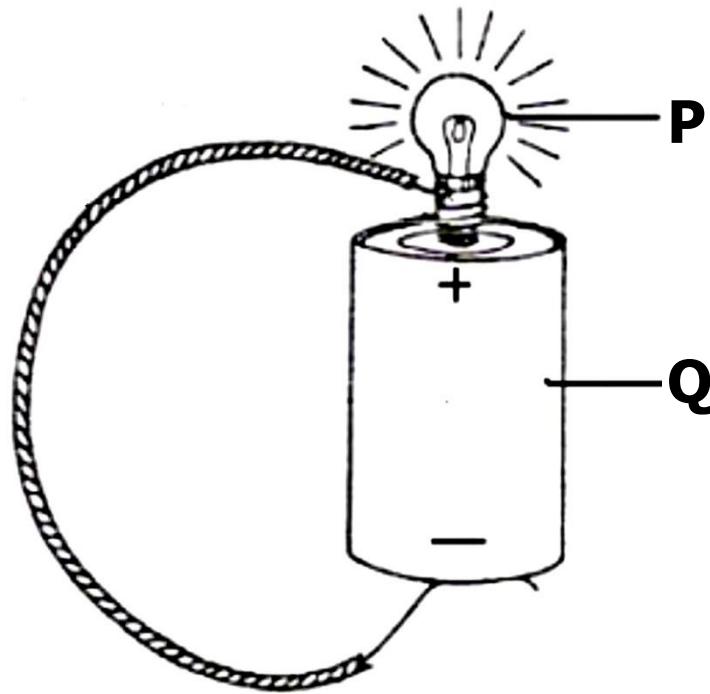
7. State the function of part marked **R** on the clinical thermometer above.

.....

8. Which type of energy is possessed by a passenger sitting in a moving car?
.....
9. Why is the trachea made up of rings of cartilage?
.....
10. Apart from building, state any **one** other way in which sand is useful to people.
.....
11. What is the importance of a queen excluder in a top bar hive?
.....
12. By what process do plants lose water to the atmosphere?
.....
13. How does castration help to prevent unnecessary mating in farm animals?
.....
.....
14. Give any **one** way in which a farmer can improve the fertility of the soil without the use of fertilizers.
.....



The diagram below shows **a simple electric circuit** .Study and use it to answer questions **15** and **16**.



15. Name the part marked **P**.

.....

16. What energy change takes place in the part marked **Q** when the circuit is complete?

.....

17. Which intestinal worm causes itching at the anus?

.....

18. How do animals make use of the gas given out by plants during photosynthesis?

.....

19. State any **one** use of electromagnets to people.

.....

20. Apart from winnowing, give **one** other way in which wind is useful to a crop farmer.

.....



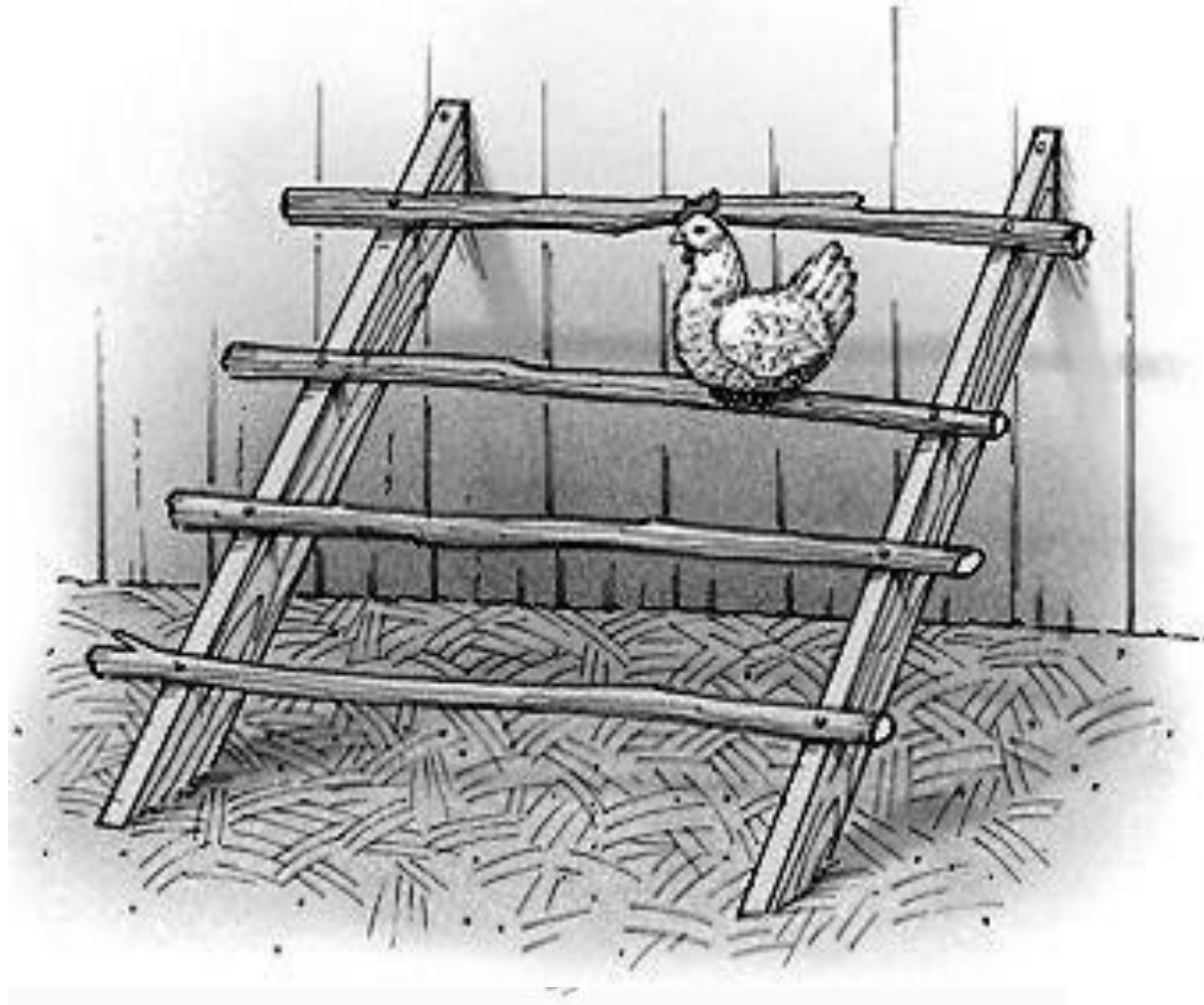
21. Which part of a fish has similar function as wings of a bird?
.....
22. State any **one** characteristic that shows that a maize grain is a fruit.
.....
23. Which type of blood vessels carry blood away from the heart?
.....
24. Give any **one** reason why bottle feeding is discouraged by health workers.
.....
25. Name any **one** place where convection in gases is applied.
.....
26. Name the part at the joint that prevents the bone from rubbing against each other.
.....
27. Give any **one** way in which fungi are useful to human health.
.....
28. Why is BCG vaccine given to babies at birth?
.....
.....
29. In which part of the alimentary canal does digestion of fats begin?
.....

30. What is the danger of using sharp objects to clean the ears?

.....



The diagram below shows it an item commonly used in poultry house. Study and use it to answer questions **31** and **32**.



31. Name the item shown above.

.....

32. In which **one** way is the item shown above useful in a poultry house?

.....

33. What form of energy enables a lens camera to work?

.....

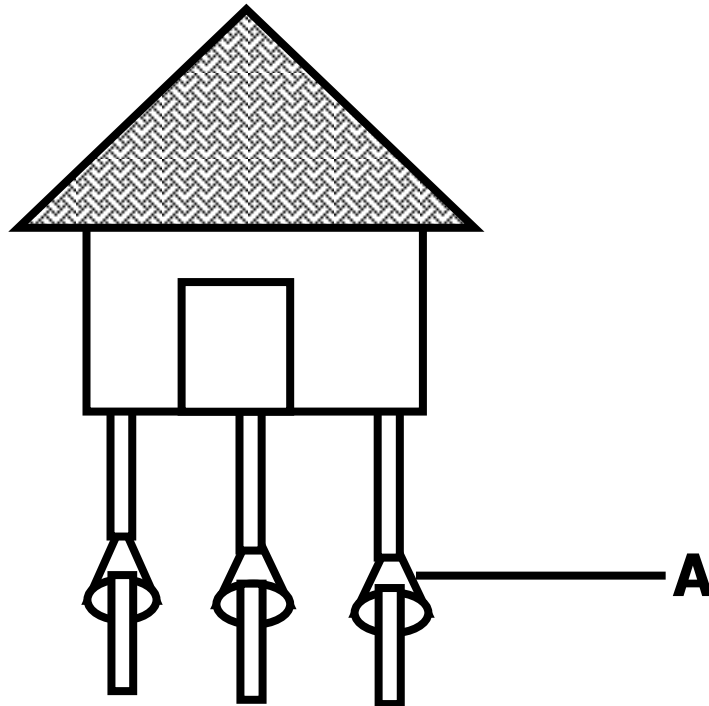
34. Give any **one** health habit that improves the working of the kidneys.

.....

35. State the biological method of controlling mosquitoes in the environment.

.....

The diagram below shows **a farm storage facility**. Study and use it to answer questions **36** and **37**.



36. Identify the farm storage facility above.

.....

37. What is the function of part marked **A** to the farm storage facility above?

.....

38. Give any **one** emotional change which occurs in girls and boys during adolescence.

.....

39. Name the disease of rabbits that can also affect human beings.

.....

40. What characteristic makes water to be called a universal solvent?

.....



SECTION B: 60 MARKS

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

41. (a) State any **two** ways in which pests affect crop production.

(i)

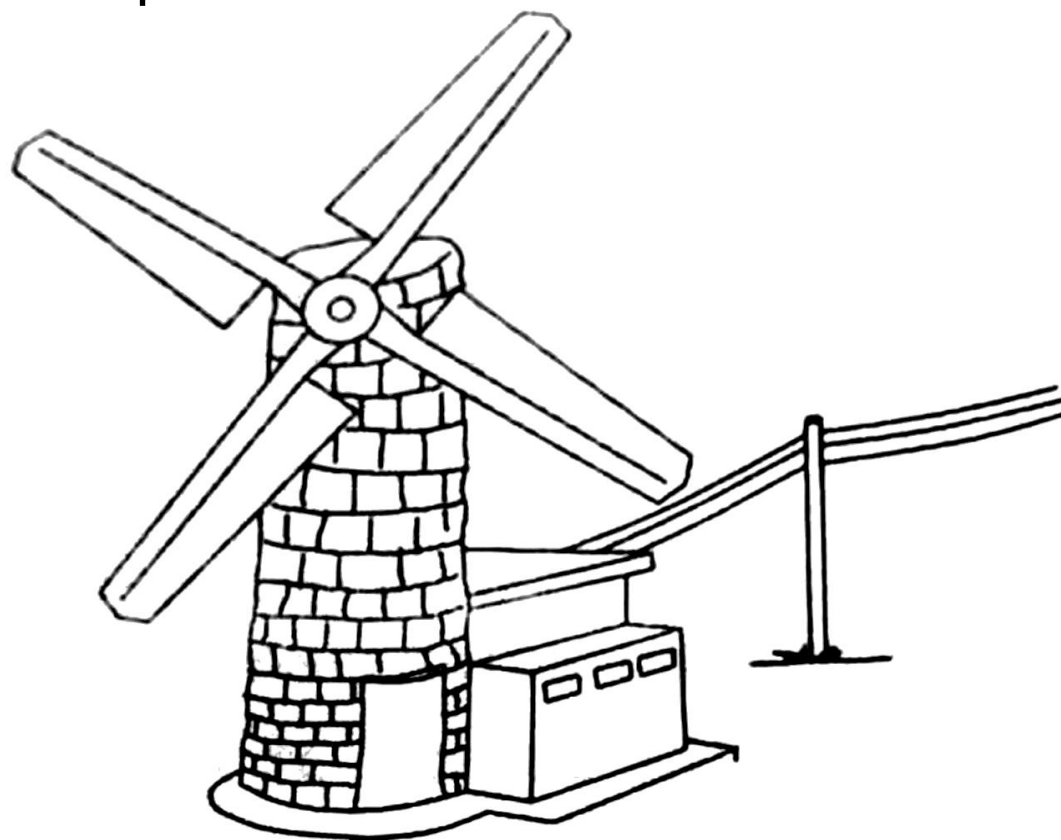
(ii)

(b) Give any **two** ways of preventing pests from damaging stored crops.

(i)

(ii)

42. The diagram below is of a device that uses wind to function. Study and use it to answer the questions that follow.



(a) Name the device shown above.

.....

(b) State any **two** ways in which the above device is useful to people.

(i)

(ii)

(c) Apart from the device shown above, mention any **one** other device that uses wind to function.

.....

43. In the table below, part **A** shows some terms commonly used in measurement and part **B** shows their meanings.

A: (TERMS)	B: (MEANINGS)
Mass	Force of gravity acting on an object.
Volume	Mass per unit volume of a substance
Density	Quantity of matter an object contains
Weight	Amount of space an object occupies.

Write the correct meaning to the term in the space provided below.

(i) Mass

.....

(ii) Volume

.....

(iii) Density

.....

(iv) Weight

.....



44. (a) Give any **two** non infectious diseases that attack the lungs.
(i)

(ii)

(b) State any **two** ways of controlling non infectious diseases of lungs given above.

(i)

(ii)

45. (a) To which group of tuber crops do sweet potatoes belong?
.....

(b) How is the propagation of sweet potatoes similar to that of cassava?

.....

(c) Give any **two** other crops that are propagated in the same way as sweet potato and cassava.

(i)

(ii)

46. (a) What type of change is freezing?
.....

(b) State any **one** way in which freezing is useful to people.

.....

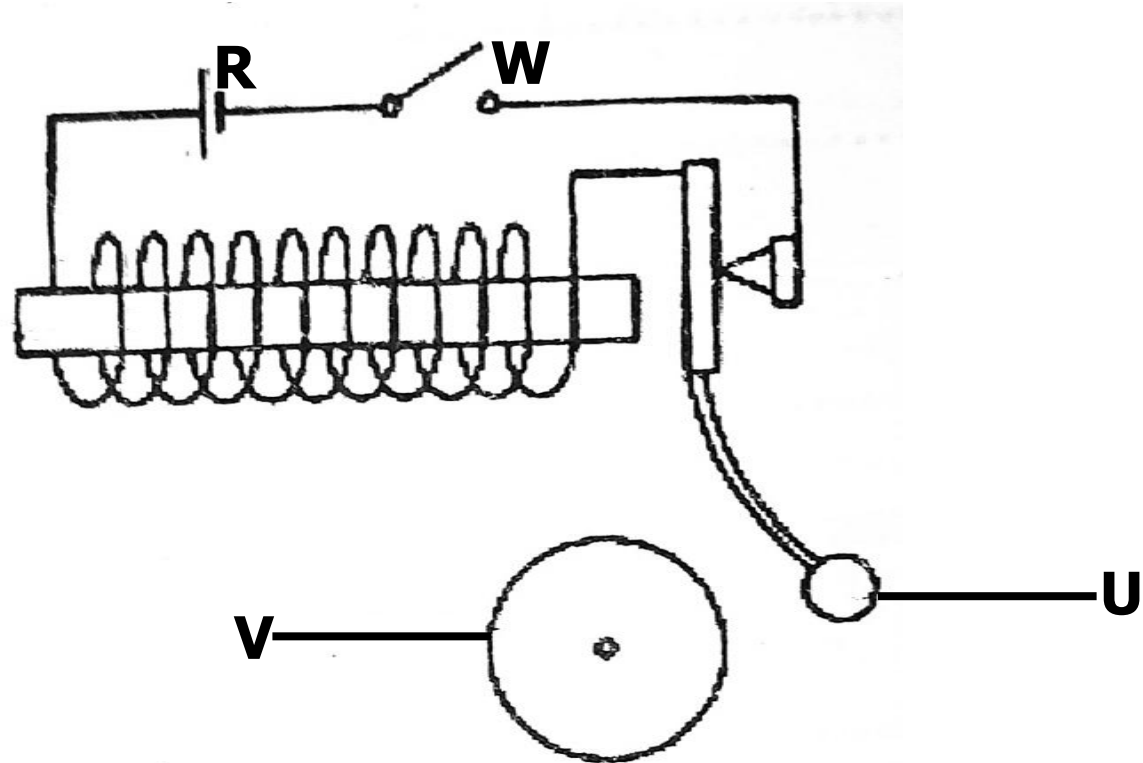
(d) Apart from freezing, mention any **two** other physical processes that are caused by heat loss.

(i)

(ii)



47. The diagram below shows an electric bell. Study and use it to answer the questions that follow.



(a) Name the parts marked **R** and **V**.

(i) **R**

(ii) **V**

(b) State the energy change that takes place when part **W** is closed.

.....

(c) How is part marked **U** useful on the electric bell?

.....

.....

48. (a) State any **one** condition that can lead to the outbreak of Newcastle disease in poultry.

- (b) Mention any **two** signs and symptoms of Newcastle disease in poultry.
- (i)
- (ii)
- (c) Give any **one** way in which a poultry farmer can prevent the outbreak of Newcastle disease in poultry.

49. (a) State any **one** advantage of each of the following activities done on a farm.
- (i) Dehorning
- (ii) Steaming up
- (b) Apart from dehorning and steaming up, list any **two** other routine activities carried out on a cattle farm.
- (i)
- (ii)



50. (a) Mention **two** methods used to prepare clean water for washing clothes at home.
- (i)
- (ii)
- (b) State any **one** importance of washing clothes to human health.
-
- (c) Apart from washing, give any **one** other step followed when cleaning clothes at home.
-
51. (a) Name **two** dangerous substances found in tobacco smoke.
- (i)
- (ii)
- (b) State any **two** effects of cigarette smoking by pregnant women to their unborn babies.
- (i)
- (ii)
52. (a) Apart from salting , mention any **two** other methods used to prevent meat from going bad.
- (i)
- (ii)

(b) In which way does salting prevent meat from going bad?

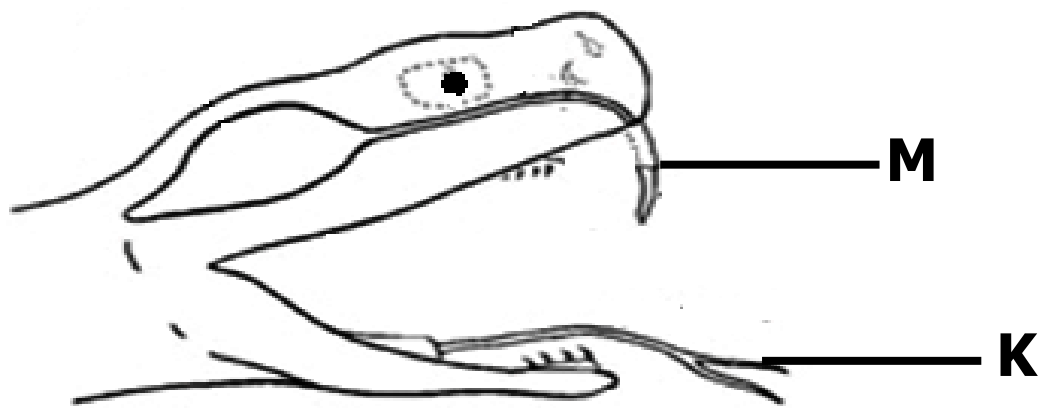
.....

(c) Name any **one** organism in the environment that provides food to people.

.....



53. The diagram below shows **the head of a group of snakes**. Study and use it to answer the questions that follow.



(a) Name the parts marked **M** and **K**.

(i) M

(ii) K

(b) State the function of part marked **M**.

.....

(c) Which group of snakes have the above nature of the head?

.....

54. (a) In which part of the female reproductive system of humans does each of the following take place?
- (i) Fertilization
- (ii) Implantation
- (b) State any **two** ways of caring for the reproductive organs in humans.
- (i)
- (ii)

55. The diagram below shows **a flush toilet**. Study carefully and use it to answer the questions that follow.



- (a) Name the parts labeled **E** and **G**.
- (i) **E**
- (ii) **G**
- (b) State the function of the pipe marked **F** on the above toilet.
-
- (c) Give any **one** way of maintaining the above toilet in a good working condition.
-



