



# SUREKEY EXAMINATIONS BOARD

## PRIMARY SEVEN PRE-PLC REGISTRATION SET

2024

INTEGRATED SCIENCE

*Time Allowed: 2 hours 15 minutes*

Index No.					Personal No.		

**Pupil's Name:** .....

**Pupil's Signature:** .....

**School Name:** .....

**District Name:** .....

**Read the following instructions carefully:**

1. Do not forget to write your **school** or **district name** on the paper.
2. This paper has two sections: **A** and **B**.  
Section **A** has **40** questions and section **B** has **15** questions. The paper has **16** printed pages.
3. Answer **all** questions. **All** working for both sections **A** and **B** must be shown 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 will **not** be marked.
5. Unnecessary **changes** in your work and handwriting that cannot be read easily 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.

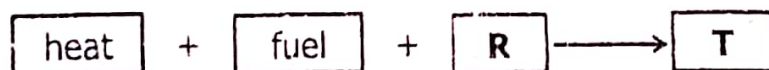
FOR EXAMINERS' USE ONLY		
Qn. No.	MARKS	EXR'S NO.
1 – 10		
11 – 20		
21 – 30		
31 – 40		
41 – 43		
44 – 46		
47 – 49		
50 – 52		
53 – 55		
TOTAL		

## SECTION A: 40 MARKS

Questions 1 to 40 carry one mark each

1. Name the type of weather that enables boats to sail on water.  
.....
2. State any **one** way of controlling the spread of trachoma among school children.  
.....
3. Which animal fibre is obtained by shearing merino sheep?  
.....
4. Name the disease of the circulatory system that leads to abnormal production of white blood cells in the human body.  
.....
5. What is the importance of putting sand grains in poultry feeds?  
.....

The diagram below shows a chemical process. Use it to answer questions 6 and 7.



6. What is the gaseous substance at **R**?  
.....
7. Name the chemical process that is formed at **T**.  
.....
8. Which sticky substance do honey bees use to repair damaged parts of the hive?  
.....

24. Name any **one** equipment that can be used when finding the volume of an irregular object.
- .....

The diagram below shows a root crop. Use it to answer questions **25** and **26**.



25. Why is the crop shown above grouped under root crops?
- .....
26. Give any **one** advantage of piling soil around the root crop as shown in the diagram above.
- .....
27. Apart from getting shelter, give any **one** other way in which termites benefit from soil.
- .....
28. What term describes the way in which biceps and triceps work in the human body?
- .....
29. State the method of purifying water where chlorine is added to water to kill germs.
- .....

30. In which way does the sun help to prevent rickets among children?

.....



31. Apart from regular vaccination, state any **one** other way of preventing the spread of pneumonia in rabbits.

.....

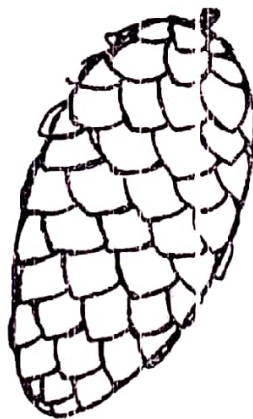
32. Give any **one** reason why amphibians lay their eggs covered with jelly.

.....

33. How is the way in which a tsetse fly spreads germs different from that of a housefly?

.....

The diagram below shows a part found on a pine plant. Use it to answer questions **34** and **35**.



34. Name the part of the pine plant shown above.

.....

35. How does the part shown above help a pine plant to multiply?

.....



36. Name the disorder of the respiratory system that leads to the blockage of the air passage.

37. State any **one** way in which water is important in the soil.

38. Give a reason why a hard material should be put in the mouth of a convulsing victim.

39. What type of changes take place when a nymph develops wings?

40. State the method used to separate substances with different boiling points.

**SECTION B: 60 MARKS**

Questions **41** to **53** carry four marks each.

41. (a) Which immunisable disease is spread by cockroaches?

(b) Give any **two** characteristics which enable a cockroach to spread germs easily to human health.

(i) .....

(ii) .....

(c) State any **one** practice that can be done to control the breeding of cockroaches at home.

42. The diagram below shows a type of fracture. Study and use it to answer the questions that follow.



- (a). Name the type of fracture shown above.

.....

- (b) Give any **two** signs of the type of fracture shown above.

(i) .....

(ii) .....

- (c) State any **one** way in which you can give first aid to a casualty with the type of fracture shown above.

.....

43. (a) Apart from jacaranda, mention any **two** other examples of seeds dispersed by wind in the environment.

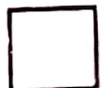
(i) .....

(ii) .....

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

(i) .....

(ii) .....



44. (a) Apart from enzymes, give any **two** other substances that help in the digestion of food in the human body.

(i) .....

(ii) .....

(b) State any **one** role played by enzymes during digestion of food.

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

45. (a) Name the mode of reproduction in;

(i) Yeast .....

(ii) Toadstool .....

(b) State any **two** ways in which yeast is important to people.

(i) .....

(ii) .....

46. (a) Write down any **two** changes of state of matter that take place in the absence of heat.

(i) .....

(ii) .....

(b) Give any **two** ways in which good conductors of heat are useful to people.

(i) .....

(ii) .....



**TURN OVER**

47.

The table below shows cattle diseases, germs that cause them and signs of each disease. Study and complete it correctly.

Disease	Germ	Sign of the disease
(i) Mastitis	Bacteria	..... .....
(ii) ..... .....	Virus	Blisters on top of the hooves and mouth.
(iii) Heart water disease	..... .....	Animals walk in circles.
(iv) Nagana	protozoa	..... .....

48. (a) Give any **two** factors that affect the weight of an object.

(i) .....

(ii) .....

(b) State any **two** differences between weight and mass.

(i) .....

(ii) .....



49. (a) Name the method used to administer;

(i) Polio-vaccine in the body .....

(ii) BCG vaccine in the body .....

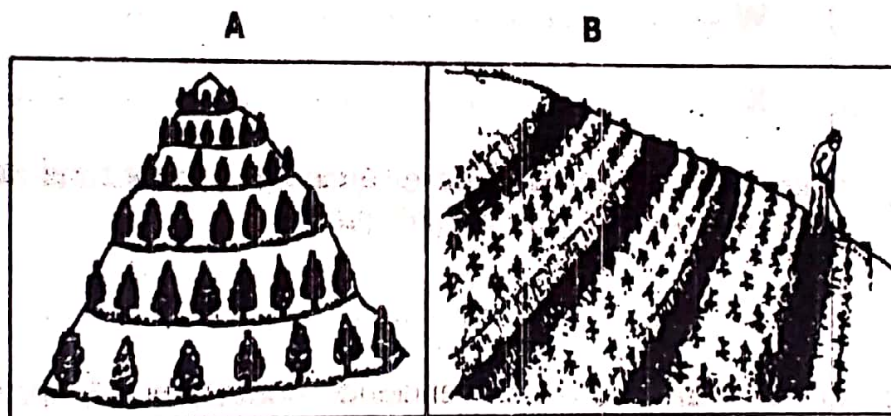
(b) Give any **two** ways in which immunization helps to maintain the health of infants.

(i) .....

(ii) .....



50. The diagrams below show methods of controlling soil erosion in the environment. Study and use them to answer the questions that follow.



(a) Name the methods of controlling soil erosion marked **A** and **B**.

(i) **A** .....

(ii) **B** .....

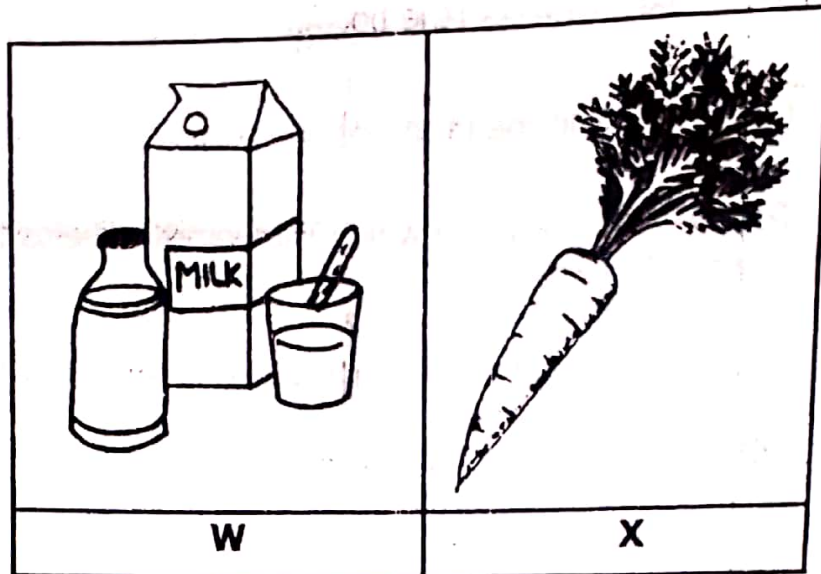
(b) How does method marked **A** control soil erosion?

.....

(c) Identify any **one** land scape in which the methods of controlling soil erosion above can be used.

.....

51. The diagrams below show foodstuffs. Study and use them to answer the questions that follow.



- (a) Name the food nutrient found in the foodstuffs marked **W** and **X**.

(i) **W** .....

(ii) **X** .....

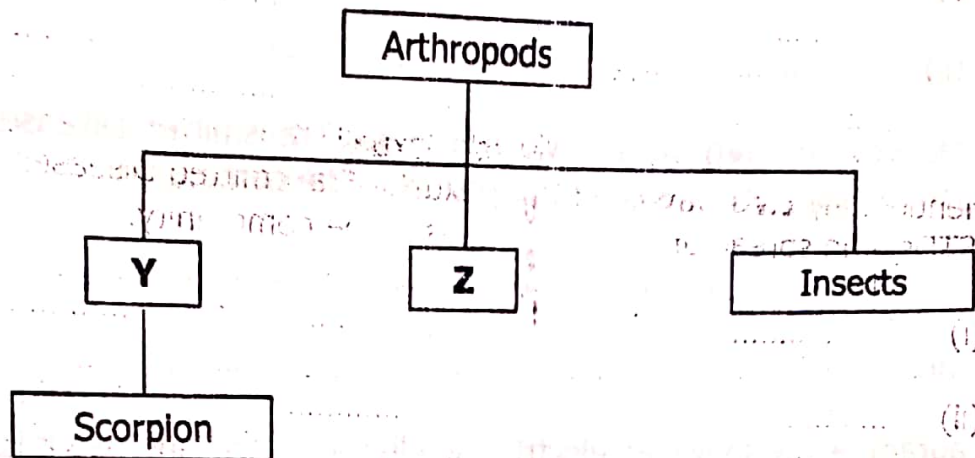
- (b) Identify the deficiency disease caused by lack of food nutrient found in foodstuff **X** in one's diet.

.....

- (c) State any **one** sign of deficiency of food nutrient found in foodstuff **W** in children.

.....

52. The table below shows groups of arthropods. Study and use it to answer the questions that follow.



- (a) Name the group of arthropods represented at **Y**.
- .....
- (b) State the difference between a scorpion and arthropods at **Z** in the way they reproduce.
- .....
- .....
- (c) Mention the group of arthropods from the classification table above to which a praying mantis belongs.
- .....
- (d) Identify the group arthropods that is not included on the classification table above.
- .....

53. (a) Give any **two** examples of bacterial Sexually Transmitted Diseases (STDs) that can spread among the youths.

(i) .....

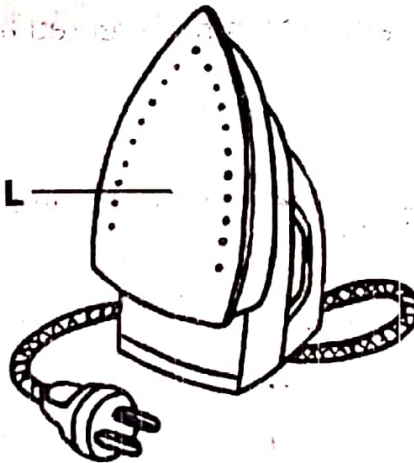
(ii) .....

(b) Mention any **two** ways in which Sexually Transmitted Diseases (STDs) can spread among the youths in the community.

(i) .....

(ii) .....

54. The diagram below shows an electrical appliance. Study and use it to answer the questions that follow.



(a) What form of energy enables the above electrical appliance to work?

.....

(b) How does the electrical appliance above work?

.....

.....

(c) In which way is the above electrical appliance useful to people?

.....



(d) Name the form of energy produced at part marked L.

.....

55. (a) Apart from brass, give any **one** other example of an alloy.

.....

(a) Name the **two** metals used to make brass.

(i) .....

(ii) .....

(b) Give any **one** reason why alloys are made.

.....

