

PRE - PLE SPECIAL SET III - 2022
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. This paper has two sections **A** and **B**.
2. Section **A** has **40** short questions. (40 marks)
3. Section **B** has **15** questions. (60 marks)
4. Answer **ALL** questions. All answers to both sections **A** and **B** must be written in spaces provided.
5. All answers must be clearly written using blue or black ball point pen or ink. Only diagrams should be drawn in pencil.
6. Unnecessary changes of work may lead to loss of marks.
7. Do not fill in the boxes. They are for examiners' use only.

FOR EXAMINERS' USE
ONLY

FOR EXAMINERS' USE ONLY		
QN. NO.	MARK	SIGN
1-10		
11-20		
21-30		
31-40		
41-43		
44-46		
47-49		
50-52		
53-55		
TOTAL		

SECTION: A

1. Name any one domestic ^{animal} which provides hides.

2. State the effect of friction that enables sharpening of tools.

3. What happens to a ray of light when there is speed change?

4. Why do plants lose more water during hot temperature?

5. Name the force that increases the speed of objects moving down a slope.

6. Apart from obtaining food, give one other way pests depend on crops.

7. Why do medical workers wear gloves and overalls?

8. How is a cassava plant adapted to surviving through a dry season?

9. State the energy change that takes place when wood is burning.

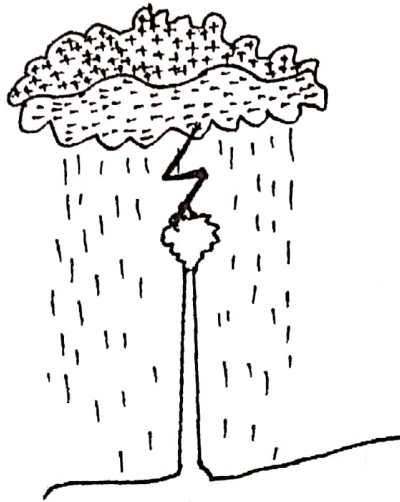
10. Which term is used to mean the remains of plants and animals buried in the soil many years ago?

11. Why is silver used as a coating to prevent heat gain and loss?

12. Give any one raw material for making sanitizer.

13. State any one advantage of using a foot operated hand washing facility.

he diagram below shows an example of static electricity in nature. Use it to answers question 14 and 15.



14. Name the example of static electricity shown by the diagram.

15. Name the charge possessed by the tree.

16. Name the digestive juice that weakens the hydrochloric acid from the stomach.

17. What is the role of water in the preparation of Oral rehydration solution?

18. Mention the mineral salt that forms the shell of a water snail.

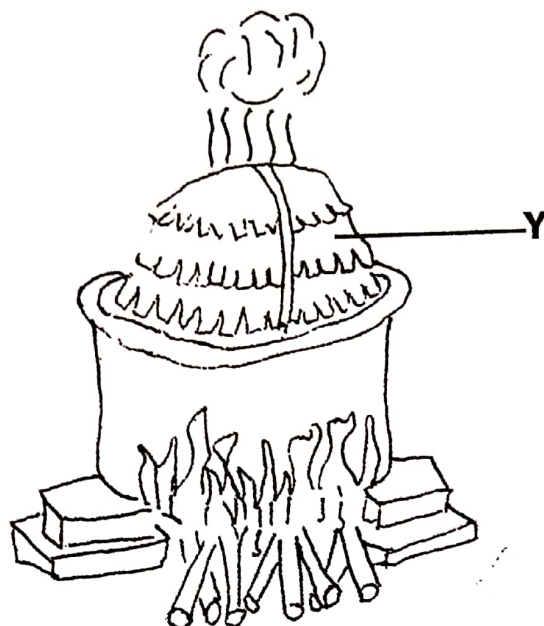
19. Give one way of maximizing the pollination of insect pollinated crops.

20. State one disadvantage of inbreeding in cattle.

21. How does the tetanus germ affect the muscular skeletal system?

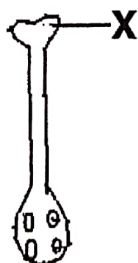
22. Name the deficiency disease in mothers caused by frequent pregnancies.

The diagram below shows a saucepan with food on fire. Study it and answer the questions 23 and 24.



23. How does water in the saucepan dry up after some time of cooking?
-
24. Apart from covering, give one other importance of part y.
-
25. Why are pieces of wood covered with soil during charcoal making?
-
26. In which way is a refrigerator different from a vacuum flask in terms of their effect on matter?
-

The diagram below shows part of a flower. Study it and answer the questions 27 and 28.



27. Give the general name for the part of a flower shown in the diagram.
-
28. State one way part ^{is} X adapted to receiving pollen grains?
-

29. Apart from controlling of mosquitoes, give one other importance of draining ponds of stagnant water at home.
-
30. Which physical change in the atmosphere proves that the atmosphere is cooler than the ground?
-
31. Give one danger of cultural circumcision to our healthy.
-
32. How do mothers prepare their babies for hard solid food?
-
33. Give any one disadvantage of controlling weeds using herbicides.
-
34. In which way is the breeding of a mosquito different from that of a black fly?
-
35. At what stage of growth does an insect live in a cocoon?
-
36. Why should shearing of sheep be done in dry season?
-
37. How does crop rotation break the lifecycle of pests?
-
38. Give any one use of screws.
-
39. What is the importance of air in the production of voice in humus?
-
40. State the effect of short circuits that makes a fuse melt.
-

SECTION: B

41. (a) State any one difference between communicable and non-communicable diseases.

- (b) Give any two causes of non-communicable diseases.

(i) _____

(ii) _____

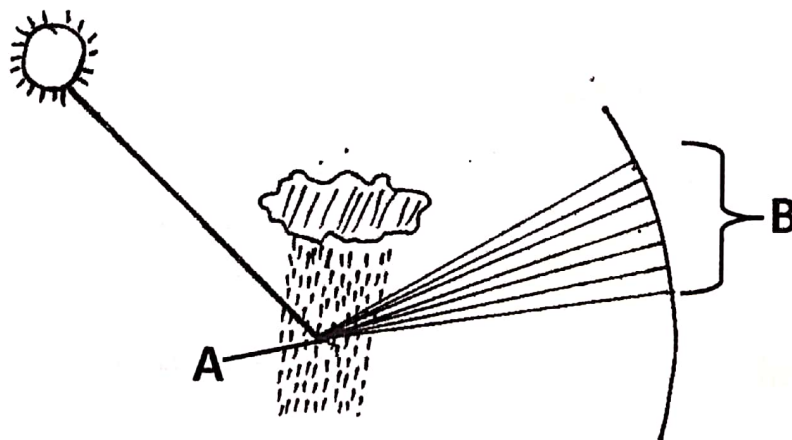
- (c) State any one way of controlling communicable diseases.

42. **Match the organisms in list A with their youngones in list B.**

A	B
Mosquito	Grub
Housefly	Maggot
Butterfly	Wiggler
Bee	Caterpillar

- (i) Mosquito: _____
- (ii) Housefly: _____
- (iii) Butterfly: _____
- (iv) Bee: _____

43. **Study the diagram about the formation of a rainbow and answer the questions that follow.**



- (a) Apart from refraction, mention one other process that takes place at A.

(b) Give one reason why colours refract differently at A.

(c) Name the scientific name for the band of colours at B.

(d) Why are rainbows not formed at night?

44. (a) Name the form of energy needed for cooking food.

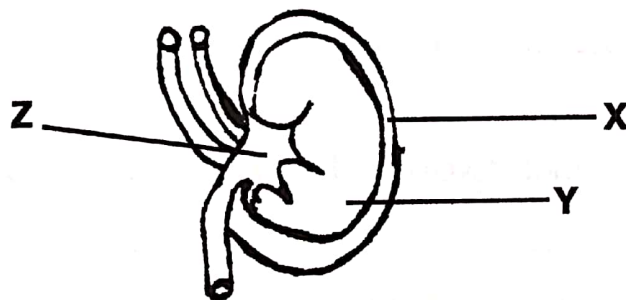
(b) Apart from cooking, give two other ways of preparing local dishes.

(i)

(ii)

(c) Give any one way of proper food handling.

45. **The diagram below shows parts of the human kidney. Study it and answer the questions that follow.**



(a) Name part marked Z.

(b) State the process that takes place in each of the parts.

(i) X:

(ii) Y:

(c) How does drinking of plenty of water help to improve the proper working of the above organ?

46. (a) Apart from the number of children, state one other thing married couples talk about in family planning.

(b) Mention any two natural methods of birth control.

(i) _____

(ii) _____

(c) Give one advantage of using natural methods of birth control.

47. (a) What term is used to mean the growing of trees together with crops?

(b) Give two ways how crops benefit from being grown together with trees.

(i) _____

(ii) _____

(c) Give one method of harvesting trees that cause less damage to crops.

48. (a) Name any two primary colours.

(i) _____

(ii) _____

(b) How does reflection of light determine the colour of an object?

(c) Why are motorcyclists advised to wear reflector aprons at night?

49. (a) Apart from dust, mention any one other example of a foreign body.

(b) State how each of the body openings below is adapted to resisting foreign bodies.

(i) Eye: _____

(ii) Nose: _____

(iii) Ear: _____

50. (a) What term is used to refer to unacceptable sexual practices?

(b) Give any one danger of unacceptable sexual practices.

(c) State any two ways of avoiding antisocial behavior.

(i) _____

(ii) _____

51. (a) Mention any two examples of alloys.

(i) _____

(ii) _____

(b) State any two properties of a metal that are improved through alloying.

(i) _____

(ii) _____

52. (a) State any two changes during puberty that prove sexual maturity.

(i) _____

(ii) _____

(b) Give two ways how adolescents can stay safe during puberty.

(i) _____

(ii) _____

53.

(a) State the adaptation of an egg shell to carryout the following functions:

i) gaseous exchange - _____

ii) protecting inner parts of an egg - _____

(b) Mention one condition that may make birds to lay eggs with soft shells.

(c) Give any one safe way of storing eggs before incubation.

54. **Study the message below and answer the questions that follow.**

Prevention is better than cure

- (a) Mention any two activities under PHC that promote the above message.
- (i) _____
- (ii) _____
- (b) Give any two advantages of preventing diseases over curing them.
- (i) _____
- (ii) _____
55. (a) Apart from milk, name any one other animal product.
- _____
- (b) Give one factor that reduce the quality of animal products.
- _____
- (c) State one way how each of the items below help to determine the quality of milk.
- (i) Strip cup: _____
- (ii) Lactometer: _____

END