PACE EDUCATION SERVICES

PACE PRE-PLE (MERCURY)

2026

INTEGRATED SCIENCE

Time Allowed: 2 hours 15 minutes

Final Mark Scored	

Random NO.						Personal No.		

Candidate's Name: .....

Candidate's Signature: .....

School Name: .....

Read the following instruction carefully:

1. Do not forget to write your **name** and **school 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. The paper has **16 printed pages** altogether.
3. Answer **all** the questions. **All** answers to both sections **A** and **B** must be written 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

Answer **all** *questions in this section*

Questions **1** to **40** carry one mark each.

1. Name the type of injury caused by body contact with hot materials.

……

2. Give **one** way through which the use of protective clothing promotes food hygiene in markets.

……

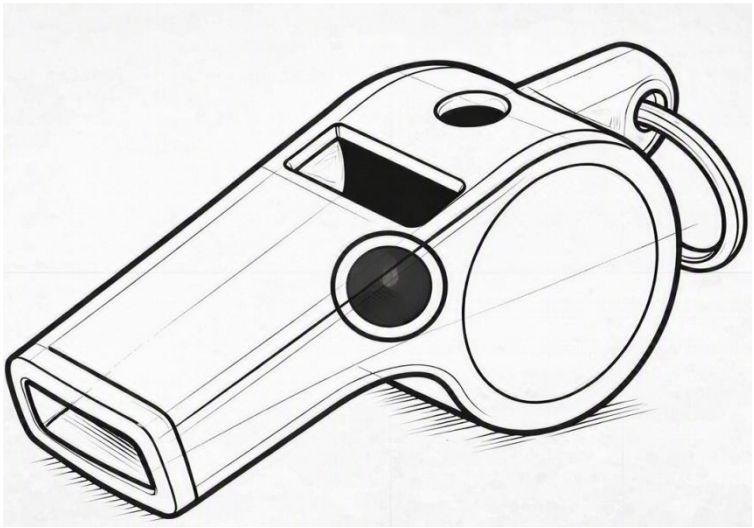
3. Name **one** material that used to make playing materials during a Physical Education lesson.

……

4. State the reason why shop keepers raise sacks of flour on wood in shops.

……

The diagram below shows a musical instrument. Study and use it to answer questions **4** and **5**.



5. Mention the group of musical instruments to which the above belongs

……

6. State the way through which sound produced by the instrument above reaches the players during a game of football.

……

7. Mention any **one** activity done by the help of air that exerts pressure.

……

8. Name the injury that occurs on the ligament due to vigorous stretches made during playing time.

……

9. Give any **one** example of a change that forms a permanent new substance.

……

10. Apart from wind, mention **one** other agent of seed dispersal.

……

11. Identify any **one** material needed to produce fermented alcohol.

12. Name the method of obtaining clean water that requires a condensation process.

……

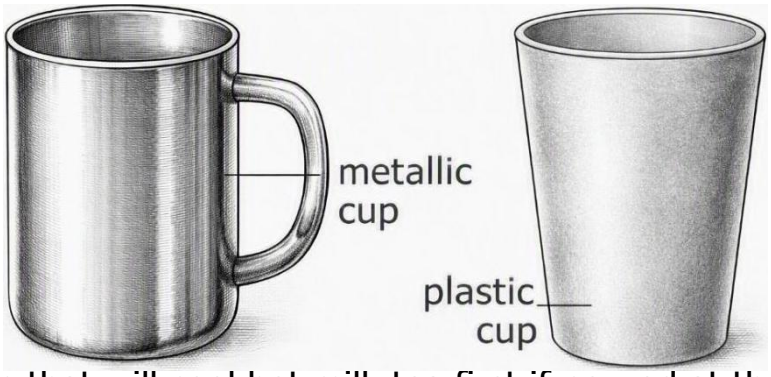
13. Mention any **one** method used by plants with weak stems to climb others.

……

14. Give the importance of the sharp claws/talons to a kite bird.

……

The diagrams below show cups made of different materials. Use them to answer questions **15** and **16**.



15. Identify the cup that will cool hot milk tea first if poured at the same time.

……

16. State the use of soap during the cleaning of the above cups.

……

17. Name the germ that causes yellow fever in children.

……

18. Mention any **one** way of putting out fire from a burning charcoal after cooking.

……

19. Give the method used to separate petroleum components in a refinery.

……

20. State any **one** reason why it is not advisable for people to share a house with domestic birds.

……

21. Name any **one** correct layer of the skin in humans.

……

22. State the reason why frogs lay many eggs during reproduction.

……

23. Give **one** correct use of the moist skin to a frogs.

.....

24. State any **one** way through which crop pests can be controlled in a crop garden.

.....

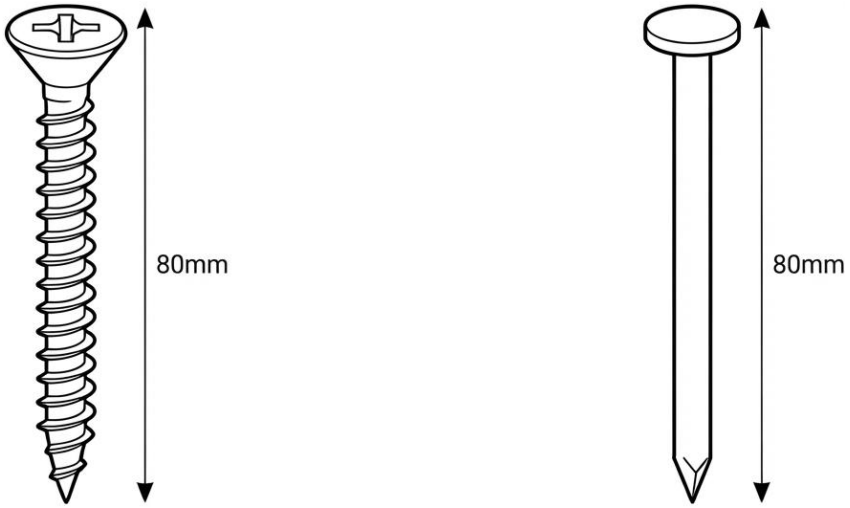
25. State any **one** importance of heat in the prevention of spread of germs.

.....

26. Mention any **one** disadvantage of baking bricks to the environment.

.....

The diagram below shows tools used by a carpenter during his work. Use them to answer questions **27** and **28**.



27. Identify the group of simple machines to which machine in diagram **B** belongs.

.....

28. Mention **one** factor that affects proper working of the above machines.

.....

29. Name the optical body organ in human beings.

.....

30. Mention the part of the human ear that works like the brain.

.....

31. State any **one** way through which the blood volume in the body can be increased.

.....

32. Name the breathing organ of a tick.

.....

33. Give **one** way reptiles help to improve human health.

.....

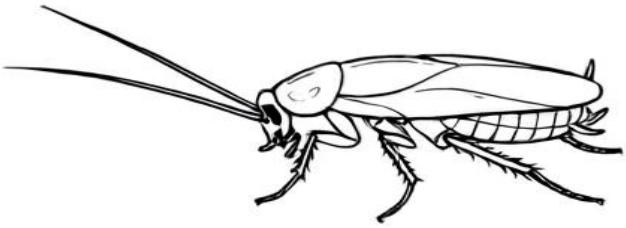
34. Mention any **one** use of water during drug administration by a patient.

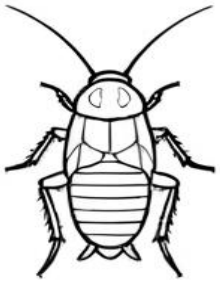
.....

35. State the **one** adaptation of the retina of the human eye to forming images.

.....

The diagram below shows a life cycle of an insect vector. Use it to answer questions that follow **36** and **37**.







36. Identify the type of life cycle shown above.

……

37. Show the flow of the stages from the diagram above using arrow heads.

……

38. Name the system of grazing cattle that requires the use of a rope and a peg.

……

39. Mention any **one** way of caring for the reproductive organs.

……

40. Name any **one** correct fungal skin disease in humans.

……

SECTION B (60 MARKS)

Answer **all** *questions in this section*

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

41. (a) Name the component of a clean home that helps to provide clean water for washing hands after visiting a latrine.

.....

(b) Mention any **two** factors considered when washing hands.

(i) .....

(ii) .....

(c) Identify any **one** disease that can be prevented by regular washing of hands with clean water and soap.

.....

42. Use the list of the organisms below to answer questions that follow correctly.

Weaver bird, Rice, Eagle, Sun, Mushroom.

(a) Draw a food chain to show the feeding relationship among the above organisms.

(b) In the food chain above, identify the,

(i) Producer

.....

(ii) Secondary consumer

.....

(c) State the use of the sun in the above list.

.....

43. The diagram below shows a method of feeding babies. Use the diagram to answer questions that follow.



(a) Name the method of feeding babies shown in the diagram above.

.....

(b) Mention any **two** conditions that may force a family to adopt the above method of feeding a baby.

(i) .....

(ii) .....

(c) Give any **one** disadvantage of the above method of feeding to the baby.

.....

44. (a) Mention any **one** example of a root tuber besides cassava.

.....

(b) Give any **two** characteristics of root tuber crop pests.

(i) .....

(ii) .....

(c) State any **one** use of pounded cassava flour in your community.

.....

45. (a) Mention the method used in the preparation of local salt from bean pod ash.

.....

(b) Name any **one** example of food that can be prepared using local salt.

.....

(c) State any **two** other uses of ash in the environment besides making local salt from it.

(i) .....

(ii) .....

46. (a) Identify any **two** causes of poor waste management in markets in the community.

(i) .....

(ii) .....

(b) Mention any **one** way through which local leaders contributes towards waste management in the markets.

.....

(c) Give any **one** danger of poor waste management to the market vendors.

.....

47. (a) Give the meaning of **an energy resource**.

.....

.....

(b) Mention the way through which the use of energy saving stoves conserve trees in the environment.

.....

(c) Give any **two** examples of renewable energy resources in the environment.

(i) .....

(ii) .....

48. The information below was collected by a doctor at Mukuju Health Centre IV on Opio an eight year old boy.

- ❖ Dry mouth and thirst
- ❖ Reduced urination
- ❖ Dry skin
- ❖ Sunken fontanelle
- ❖ Sunken eyes

(a) Mention any **one** cause of the above conditions in the child.

.....

(b) Give any **one** way through which the above body conditions can be controlled in the boy.

.....

(c) During the control of the above condition in children, state the reason why the following materials are used.

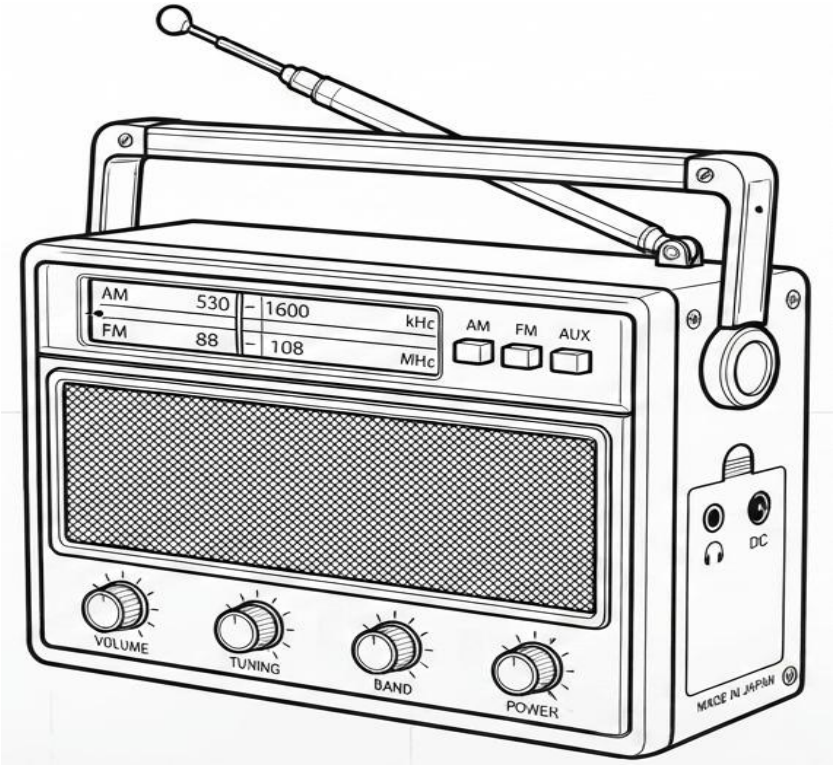
(i) Salt

.....

(ii) Safe water

.....

49. The diagram below shows an electronic device used to manage antisocial behaviours in children.



(a) Mention any **two** causes of antisocial behaviours at school.

(i) .....

(ii) .....

(b) State any **two** ways through which the use of an electronic device shown above helps in lowering antisocial behaviours in the community.

(i) .....

(ii) .....

50. (a) State any **two** conditions provided by a broody hen to the chicks till hatching.

(i) .....

(ii) .....

(b) Mention any **two** disadvantages of using natural incubation in poultry management.

(i) .....

(ii) .....

51. (a) Name any **one** component of a deep litter house.

.....

(b) Mention any **two** ways of improving the quality of local breeds of chicken.

(i) .....

(ii) .....

(c) State **one** advantage of rearing local breeds of chicken over exotic breeds.

.....

52. The table below digestive site in **A** and digestive juices in **B**. Complete it correctly.

A: Site	**B: Digestive juice**
……	Saliva
Stomach	……
Duodenum	……
……	Intestinal juice

53.

(a) Mention any **one** living source of sound in the environment.

……

(b) Give any **one** method of storing sound.

……

(c) Explain how frequency affects the pitch of sound produced by a vibrating object. (**02 marks**)

……

……

……

……

54. (a) Give any **one** excretory waste product.

……

(b) State the way through which panting is useful to a dove during sunny weather.

……

(c) Mention any **two** importance of the excretory system in the body.

(i) ……..

(ii) ……..

55. Chloe planted soya bean seeds in a fertile land. After a period of one week, She went back to check if the seeds had germinated. She found out that 200 seeds germinated out of 600 seeds planted.

(a) Mention the term used to mean failure of seeds to germinate under favourable conditions.

……

(b) Identify any **two** conditions that might have made the soya bean seeds fail to germinate.

(i) ……..

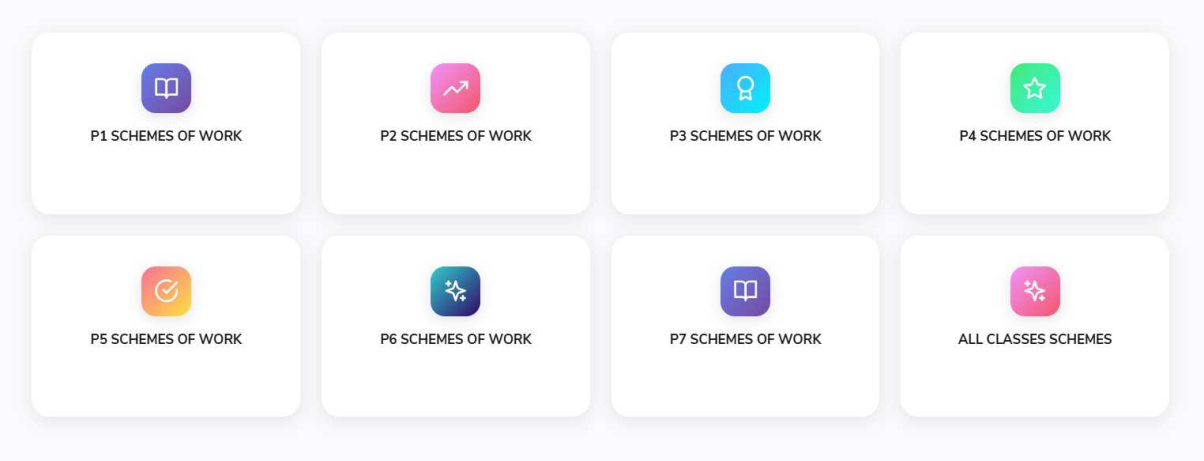
(ii) ……..

(c) Give any **one** way through which the ability of seeds to germinate can be improved.

……

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