

NAKASANA JOINT MOCK EXAMINATION 2025

INTEGRATED SCIENCE

Time allowed: 2 hours 15 minutes

INDEX NO.									
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Candidate's Name:

Candidate's Signature:

Candidate's School:

Stream:

Read the following instructions carefully:

1. This paper has **two** sections: **A** and **B**.
2. Section **A** has 40 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 the spaces provided.
5. All answers must be written in a blue or black ballpoint pen or ink. Only diagrams should be drawn in pencil.
6. Unnecessary crossing of work may lead to loss of marks.
7. Any handwriting that cannot be easily read may lead to loss of marks.
8. Do **not** fill anything in the boxes indicated;

For Examiner's use only.

**FOR EXAMINER'S 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		

PLEASE TURN OVER

SECTION A

1. Name **one** insect that pollinates flowers at night.

2. Give any **one** advantage of keeping exotic breeds of goats.

3. State any **one** device at school which uses electromagnetism to operate.

4. Mention any **one** way in which the placenta is important to the foetus.

5. State a reason why sand is used to put out fire.

The diagram below shows a mammal. Use it to answer questions **6** and **7**.



6. Identify the group of mammals to which the animal above belongs.

7. State any **one** way the above mammal is different from other mammals.

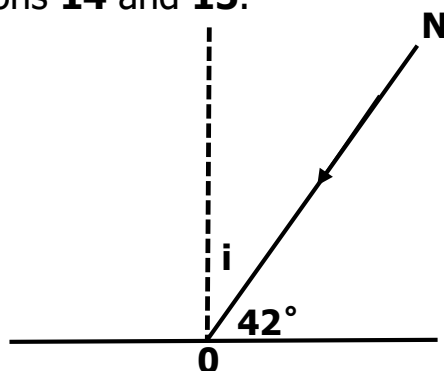
8. How is dew formed at night?

9. Give any **one** health practice that should be done to prevent the outbreak of cholera in a home.

10. Identify the component of blood that carries oxygen in the body.

11. How is the function of a cotyledon of a bean seed different from the cotyledon of a millet grain?
-
-
12. Give any **one** reason why a plate stand should be raised from the ground.
-
13. Mention **one** way in which you can remove lather from clothes during washing.
-

The diagram below shows reflection of light. Study and use it to answer questions **14** and **15**.



14. Complete the diagram above to show how ray **N** is reflected.
15. Calculate the size of the angle of reflection on the above diagram.
16. Give any **one** reason why school children should put on sandals when visiting a latrine.
-
17. Besides debeaking, how else can a poultry farmer manage poultry vices on his/her farm?
-

18. John recovered from measles, what type of immunity did he get?

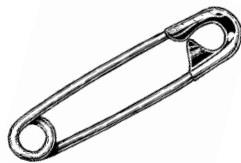
19. State a reason why mercury is used to measure the highest temperature using a six's thermometer.

20. Name the method a P. 7 child can use to recover salt from salt solution.

21. How can farmers control tick borne diseases on the farm?

22. State any **one** effect of monocropping to soil.

The diagram below is a tool used in giving first aid. Use it to answer questions **23** and **24**.



23. Name the above tool.

24. How is the above tool important when administering first aid?

25. State any **one** way animals can be used as energy resources.

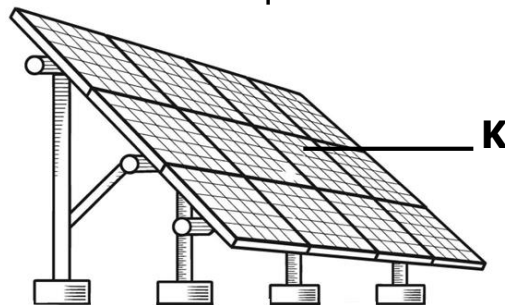
26. Mention any **one** disorder at the joint.

27. How is a weather chart important to a P. 7 pupil?

28. Name the alloy used to make a fuse.

29. Give any **one** disadvantage of food taboos to people in the community.
-
30. Mention any **one** habit that helps to maintain the proper functioning of the digestive system.
-
31. Name the method of making alcohol where yeast is added to juice.
-
32. State any **one** difference between capacity and volume.
-

The diagram below shows a device used in the production of solar electricity. Use it to answer questions **33** and **34**.



33. Why is part **K** usually black in colour?
-
34. State the reason why the above device is put on top of the roof of the house.
-
35. Give any **one** advantage of bacteria to crop farmers.
-
36. Name the type of pulley used to hoist flags at school.
-
37. Why do objects weigh less in water than in air?
-

38. Give a reason why we breathe out more carbon dioxide than the one we breathe in.

39. State any **one** importance of washing hands after eating food.

40. Identify any **one** human activity that causes soil erosion.

SECTION B

41. a) Name the insect vector that spreads dengue fever to humans.

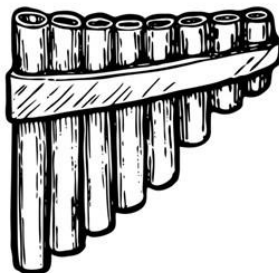
b) In which way do the following practices control the spread of malaria to people?

i. sleeping under a treated mosquito net

ii. pouring oil on stagnant water

iii. slashing tall grass around the home

42. The diagram below shows a musical instrument. Use it carefully to answer the questions that follow.



a) To which group of musical instruments does it belong?

- b) How does the above musical instrument produce sound?

- c) What causes the variation in pitch of sound produced by the above instrument?

- d) Apart from the above musical instrument, name **one** other instrument in the same class.

43. a) Name the method of soil formation where rocks break down into small particles.

- b) Which component of soil dissolves mineral salts in the soil?

- c) Briefly explain how crop rotation improves on the quality of soil.

(2 marks)
44. a) Name any **one** type of teeth found in the milk set of teeth.

- b) Which part of the pulp cavity supply food nutrients to the tooth?

- c) State any **two** ways of caring for the teeth.
i. _____
ii. _____

45. The words in List A are items used in cattle keeping and List B shows their functions.

List A

Burdizzo

Cattle crush

Spoon dehorner

Drenching gun

List B

giving liquid medicine to cattle.

break the blood vessels leading to the testes.

restrict animal movements.

Removal of horn buds from calves.

Match the items in List A to their functions in list B.

Burdizzo

Cattle crush

Spoon dehorner

Drenching gun

46. a) Which type of movable joint is found at the elbow?

- b) Name any **two** bones that form a joint at the elbow.

i.

ii.

- c) Give any **one** way friction is reduced at the joint.

47. a) Identify any **one** example of wood fuel.

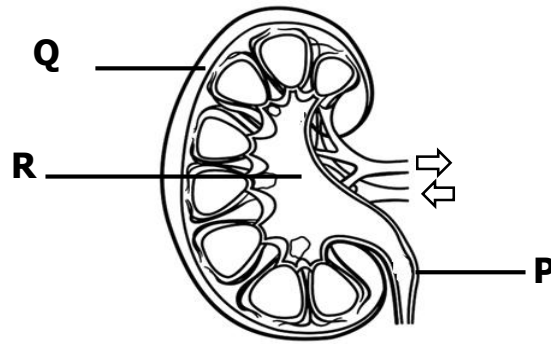
- b) State any **two** ways of conserving wood fuel.

i.

ii.

- c) Give any **one** advantage of conserving wood fuel.

48. The diagram below shows a structure of the human kidney. Study it carefully and use it to answer the questions that follow.



a) Name parts marked:

- i. **P** _____
- ii. **R** _____

b) To which body system does the kidney belong?

c) What happens to blood in part marked **Q**?

49. a) Which element of PHC is promoted by?

- i. cutting fingernails short

- ii. attending post-natal services by mothers

b) State any **two** ways how a family can participate in promoting PHC.

- i. _____

- ii. _____

50. a) Mention any **two** advantages of conduction of heat in our daily life.

- i. _____

- ii. _____

b) Give **one** disadvantage of conduction of heat.

c) Apart from conduction, mention **one** other method of heat transfer.

51. Use the list of plants below to answer questions that follow.

cedar ferns maize moss plant

a) How are the above plants similar?

b) Name **two** of the above plants that can be grouped together.

i.

ii.

c) Under what group of plants is cedar?

52. a) How is the acid secreted in the stomach important during digestion of food?

b) Why are vitamins and mineral salts not digested?

c) State any **two** ways in which indigestion can be controlled.

i.

ii.

53. a) What is meant by the term drug prescription?

b) Give any **two** advantages of taking well prescribed drugs.

i.

ii.

c) State any **one** effect of taking an overdose.

54. a) What name is given to magnets produced by induction method of making magnets?

b) Give any **one** way of increasing the strength of a magnet produced by induction.

c) Apart from induction, mention **two** other methods of making magnets.

i.

ii.

55. In four steps, explain how you can prepare rice when give a half kilogram of sorted rice, water, clean saucepan, salt and source of heat.

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