

EDUCATION SOURCE EXAMINATION BOARD 2024

PRE-PLE EXAMINATION 2024 SET II

P.7 INTEGRATED SCIENCE

Time allowed: 2 Hours 15 Minutes

TARGET MARK

Index No.

RANDOM NO.						PERSONAL NO.		

CANDIDATE'S NAME:

CANDIDATE'S SIGNATURE:.....

SECTION A

1. State any one importance of vitamins in the human body.

.....

2. How does soil benefit from plants?

.....

3. Give any one use of petroleum as an energy resource.

.....

4. What type of metamorphosis does a tsetse fly undergo?

.....

5. State what happens when a lactometer is placed in pure milk.

.....

6. Which activity of cleaning clothes helps to dissolve dirty stains?

.....

7. Name any one disease that attacks banana crops.

.....

8. State any one similarity between algae and toadstools.

.....

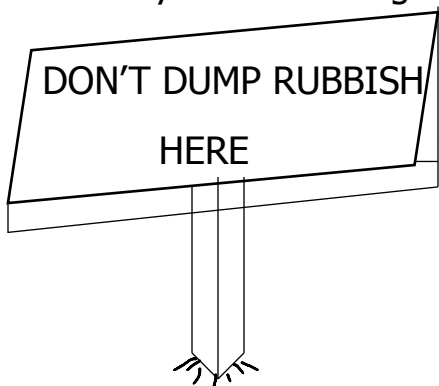
9. Give one way an infected mother can transmit HIV to the baby.

.....

10. A pulley uses 12.5kg to overcome the load of 25kg. What type of pulley is it?

.....

11. In which way is the message in the sign post below helpful in a school?



.....

12. Given the following organisms; locusts, grass, fox and hens. Form a simple food chain.

13. Name the type of reflection which occurs when a parallel beam meets a smooth and shiny surface.

.....

14. State any one disadvantage of exposing essential drugs to heat and moisture.

.....

15. Which property of air enables a P.3 pupil to operate a water dispenser?

.....

16. How does poor disposal of human excreta increase houseflies as vectors in an area?

.....

17. What makes a tapeworm able to live well in the alimentary canal?

.....

18. Give any one advantage of battery cage system to poultry birds.

.....

19. What causes an echo?

.....

20. How is ploughing downhill dangerous in crop growing?

.....

21. Name any one class of vertebrates with a streamlined body.

.....

22. Apart from carrying oxygen, give one other transporting function of blood in the human body.

.....

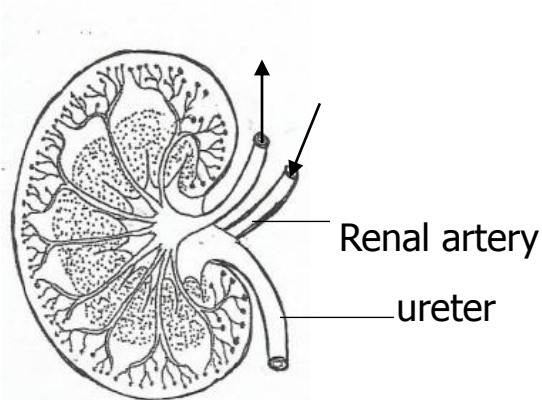
23. Why should a person spraying herbicides wear a face mask?

.....

24. How much sugar is needed for making a litre of ORS locally?

.....

The diagram below shows a body organ. Use it to answer questions 25 and 26.



25. On the diagram above, label the cortex.

26. State any one habit which promotes the proper functioning of the above body organ.

.....

27. Give any one characteristic of a coconut fruit that enables its seed to be dispersed by water.

.....

28. How does smoking affect one's breathing organs?

.....

29. Why do some cattle farmers prefer natural insemination to artificial insemination?

.....

30. Give one way non-biodegradable wastes like polythene papers can be managed in your school.

.....

31. Name any one group of crops grown in your community.

.....

32. In which way does a zebra crossing help to control accidents on a busy road?

.....

33. Change 59°F to Celsius scale.

34. State any one factor considered when siting a rain gauge as a weather instrument.

.....

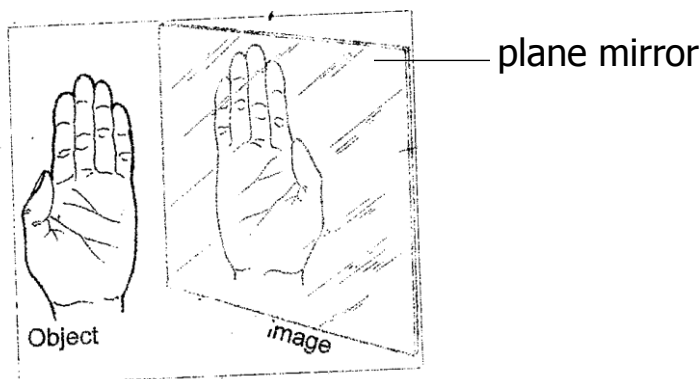
35. Write down any one practice done by P.7 pupils to control outbreak of conjunctivitis disease at school.

.....

36. Give one use of silk to man.

.....

The diagram below shows reflection of a hand in a plane mirror. Study and use it to answer questions 37 and 38.



37. What type of image is shown in the mirror?

.....

38. Name the optical instrument which uses plane mirrors.

39. Apart from bush burning, state one other human activity that leads to air pollution.

40. Which class of food is broken down to form amino acids?

SECTION B

41a) State any two signs of ear canker in rabbits.

(i)

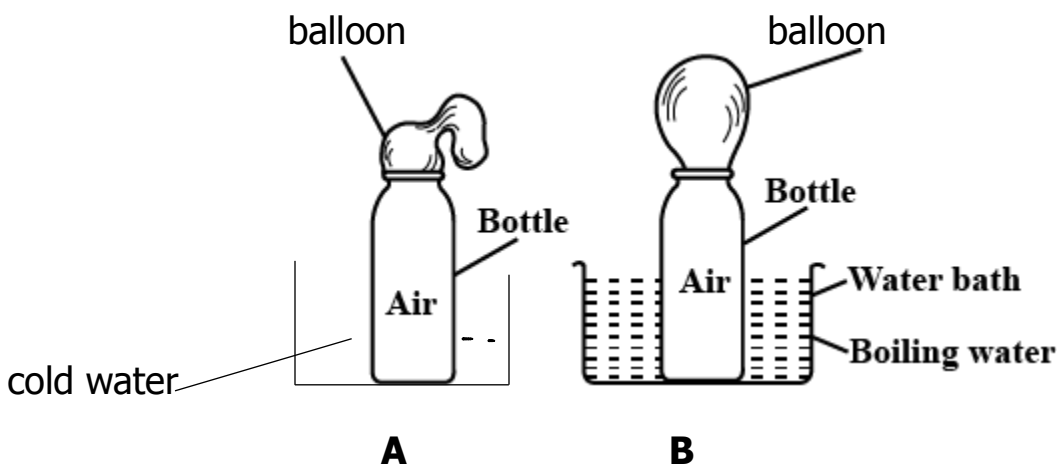
(ii)

b) Give any two practices done by rabbit farmers to control ear canker.

(i)

(ii)

42. The diagram below shows an experiment that was carried by P.5 pupils on air during science fair. Study and use it to answer questions.



a) What do the above experiments A and B show about air?

i) A

ii) B

b) Give any one way in which air is important to plants.

c) Why does a glass bottle crack when left in a working refrigerator for a long time?

43a) Name the group of vertebrates which uses shells for protection.

.....

b) Besides having shells, give any two other characteristics common to the above group.

(i)

(ii)

c) In which way do invertebrates improve on soil aeration?

.....

44a) State any two health problems that are common in over populated areas apart from inadequate food supply.

(i)

(ii)

b) Mention any two ways a community can solve the problem of inadequate food supply.

(i)

(ii)

45a) State any two ways in which plant leaves are adapted to carrying out photosynthesis.

(i)

(ii)

b) How are plant roots useful during photosynthesis?

.....

c) Give any one benefit of photosynthesis in the environment.

.....

46a) Name any one insect vector that lives in dirty clothes.

.....

b) State any one way the above vector spreads germs to people.

.....

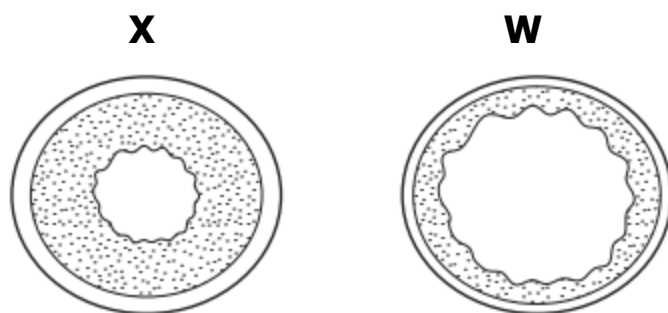
c) Mention any one factor that increases chances of insect vectors at home.

.....

d) In which one way are communicable diseases transmitted by insect vectors controlled?

.....

47. Below are blood vessels. Study and use them to answer questions that follow.



a) Give any two examples of blood vessel marked W in the human body.

(i)

(ii)

b) What type of blood flows in most blood vessels represented by letter X?

.....

c) Mention one way the proper functioning of blood vessels can be maintained.

.....

48a) By what process is local brew (Malwa) made?

.....

b) Name any one cereal crop used for making local brew (Malwa).

.....

c) State any one effect of drinking local brew (Malwa) to parents.

.....

d) Mention any one thing a child to such parents can do to avoid the habit of drinking local brew (Malwa).

.....

49a) Give any two reasons why planting cover crops like ground nuts is important in crop growing.

(i)

(ii)

b) Mention any one simple garden tool used by farmers to care for groundnut crops.

.....

c) State any one way in which proper care of crops in a garden improves on the yields.

.....

50. The diagram below shows two methods of harvesting trees commonly practiced in our community. Study and use it to answer questions that follow.



a) Identify the method of tree harvesting marked Q.

.....

b) Give the use of part Y on the stem labelled P.

.....

c) Mention any one example of an exotic tree grown in your community.

.....

d) Why should a school start a tree growing project?

.....

51a) State any two signs of a bruise.

(i)

(ii)

b) What first aid can you give to your friend with a bruised arm?

.....

c) Why is it dangerous to apply animal wastes (dung) at a bruised body area?

.....

52. The table below shows three homes; X, Y and Z and animals they rear on the farm. Study and use it to answer questions that follow.

X	Y	Z
Saanen toggenburg	Stallions oxen	Brown swiss jersey

a) Name the main product obtained from animals in list X and Z.

.....

b) Of what benefit are animals in list Y to a family?

.....

c) State any one advantage of rearing animals in list X to animals in list Z.

.....

d) Write down any one thing that can be done to ensure high quality products are obtained from animals in list Z.

.....

53a) Write the meaning of the term "magnetism".

.....

b) Which artificial magnet is helpful to a pilot?

.....

c) Explain briefly how you can prove to your friend that a magnet is strongest at its poles.(2mks)

.....

54a) Name the type of bees that safeguard the hive against enemies.

.....

b) Apart from destroying the hive, write down any two other effects of bee enemies.

(i)

(ii)

c) Give the use of a catching net to an apiarist.

.....

55a) Give any two reasoning for keeping utensils clean.

(i)

(ii)

b) How is a rack helpful in maintaining the cleanliness of utensils?

.....

c) State the reason why a rubbish pit should be dug atleast 10 metres away from the living house.

.....

END