



BROAD EXAMINATIONS®

P.7 INTEGRATED SCIENCE EXAMINATION PRE-PLE TRIAL SET I 2022

Time allowed: 2 hours 15 minutes.

Random No.					Personal No.				

Candidate's Name:

Candidate's Signature:

School Name:

Read the following instructions carefully:

1. This paper is made up of 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 in both sections A and B.
5. All answers must be written in the space provided in blue or black ball point pens and ink. Only diagrams should be done in pencil.
6. Unnecessary crossing of answers will lead to loss of marks.
7. Any handwriting, which cannot be easily read, may lead to loss of marks.
8. Do **not** fill anything in the boxes indicated for Examiners' use only.

Teacher's comment to the learner

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**FOR EXAMINER'S
USE ONLY**

PAGES	MARKS	SIGN
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Page 7		
Page 8		
TOTAL		

Approved by:

A. J. ...

Team Head Science Dept.

SECTION.A. (40 MARKS)

1. Name the part of the human ear that collects sound waves.

2. Give one use of a compost pit in a home.

3. In which one way does chlorophyll enable plants obtain food?

4. Mention one way in which breastfeeding can sometimes be a danger to a baby.

5. Name the part of onion which stores manufactured food.

6. State the way a generator works in production of electricity.

7. State one characteristic of fruits and seeds which are dispersed by wind.

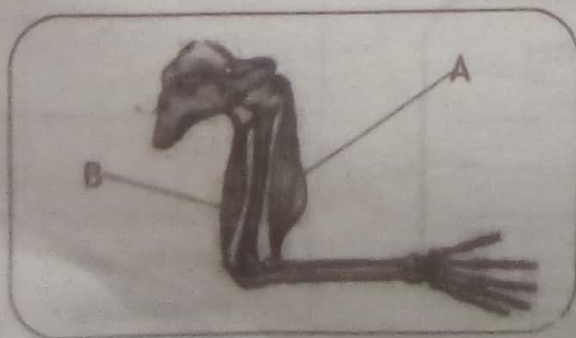
8. How does brushing of teeth after every meal prevent tooth decay in humans?

9. Which structures enable lungs to carry out gaseous exchange?

10. Give one way maize plants prevent self pollination.

11. Write down one use of salt to a fish monger.

The diagram below shows a human arm. Study and use it to answer question 12.



12. State the difference in behaviour of muscles A and B when the arm is bent as shown above.

13. State one reason why people cover logs of wood with soil when making charcoal.

14. Mention the method used in separation of petroleum products.

15. State one factor considered when selecting a pig to rear.

16. What happens to the diaphragm when a person breathes in?

17. State any one adaptation of the chameleon to obtaining its food in the environment.

18. Which class of food plays the role of building the human body?

19. In which way can effort be reduced when using a plank of wood to load plastic water tanks on a truck?

20. How is calcium an important mineral salt in the growth of teeth?

21. Give a reason why it is not advisable to burst blisters in second degree burns.

22. Name the component of air that supports rusting.

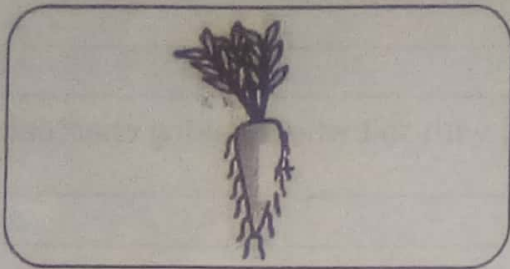
23. How are bile salts useful in the digestion of fats in the duodenum?

24. State one way lightning is important to crop farmers.

25. State one similarity between bacteria and fungi.

26. Name the second stage in the life cycle of a cockroach.

The diagram below shows a tuber crop. Study and use it to answer question 27.



27. To which type of tuber crops does the one drawn in the above diagram belong?

28. State one sign of a patient with hepatitis B.

29. Give a reason why dew is formed at night.

30. In which one way does PIASCY messages help a primary child to prevent the spread of HIV/AIDS?

31. Give a reason why cassava plants should be properly spaced.

32. Name the force that makes car tyres wear out.

33. Which Sexually Transmitted Disease causes painful urination in infected men?

34. How does wearing of gloves by a first aider prevent easy spread of certain diseases between a casualty and a first aider.

35. State one advantage of keeping exotic breeds of rabbits.

36. State one way how stored sound can be reproduced.

37. What name is given to stick frames on which poultry rest in a deep litter house?

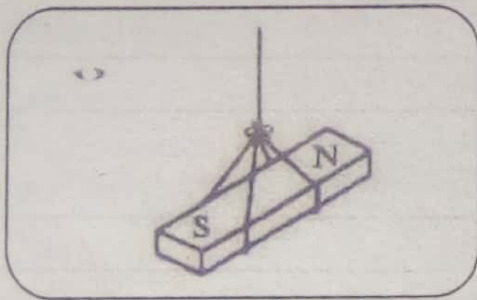
38. Why do we see a lightning flash before we hear the sound of thunder?

39. State the way diarrhoeal diseases lead to dehydration in humans.

40. Name the arachnid which produces live young ones.

SECTION B: (60 MARKS)

The diagram below shows a property of magnets. Study and use it to answer question 41.



41. (a) State the above property of magnets.

(b) Why does a freely suspended bar magnet rest as shown in the diagram above?

(c) How is the property of magnets shown above useful to pilots?

(d) State one other property of magnets.

42. (a) Name the plant process that helps in cooling plants during hot days.

(b) Write two factors which affect the process you have named in (a) above.

(i) _____

(ii) _____

(c) How is the above process useful to the environment?

Below are signs and symptoms of an immunisable disease. Study and use them to answer question 43.

- Skin rash
- Sores in the mouth
- Fever
- Red eyes

43. (a) Which immunisable disease has the above signs and symptoms?

(b) How does the above disease spread?

(c) Give two ways in which a child can acquire immunity against the disease you have named in (a) above.

(i) _____

(ii) _____

44. (a) Write two natural methods of family planning.

(i) _____

(ii) _____

(b) State two effects of frequent births.

(i) _____

(ii) _____

45. (a) Give two materials used to make biogas.

(i) _____

(ii) _____

(b) Suggest one way how biogas energy helps people to conserve the environment.

(c) Apart from biogas, mention one other clean alternative source of energy.

46. (a) Write down two causes of soil erosion.

(i) _____

(ii) _____

(b) How do the following practices control soil erosion?

(i) mulching

(ii) afforestation

47. Arrange the following steps in their correct order as used in cleaning clothes.

soaking, rinsing, washing, sorting

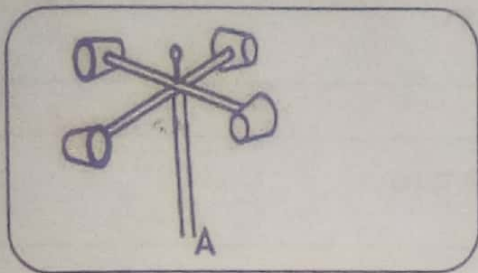
(i) _____

(ii) _____

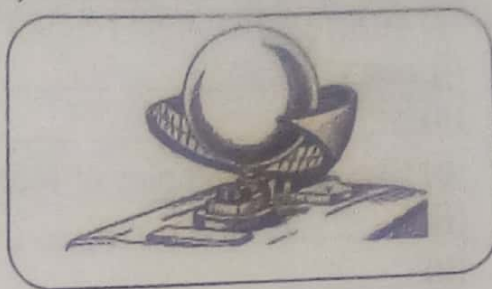
(iii) _____

(iv) _____

The diagram below shows weather instruments, study and use them to answer question 48.



B



48. (a) Name the weather instrument marked;

(i) A _____

(ii) B _____

(b) State the use of weather instrument marked;

(i) A _____

(ii) B _____

49. (a) Mention two examples of simple machines in second class levers.

(i) _____

(ii) _____

(b) Write two lubricants used in reducing friction in simple machines.

(i) _____

(ii) _____

50. (a) Give the standard units used in measuring mass.

(b) Give a reason why it is easier to push a wheelbarrow downhill than uphill?

(c) Mention two examples of objects that float on water.

(i) _____

(ii) _____

51. Match the following digestive juices with their enzymes.

List A

Saliva

Gastric juice

Pancreatic juice

Succus entericus

List B

sucrase

Trypsin

Ptyalin

Pepsin

(i) Saliva _____

(ii) Gastric juice _____

(iii) Pancreatic juice _____

(iv) Succus entericus _____

52. (a) Write two vitamin related deficiency diseases.

(i) _____

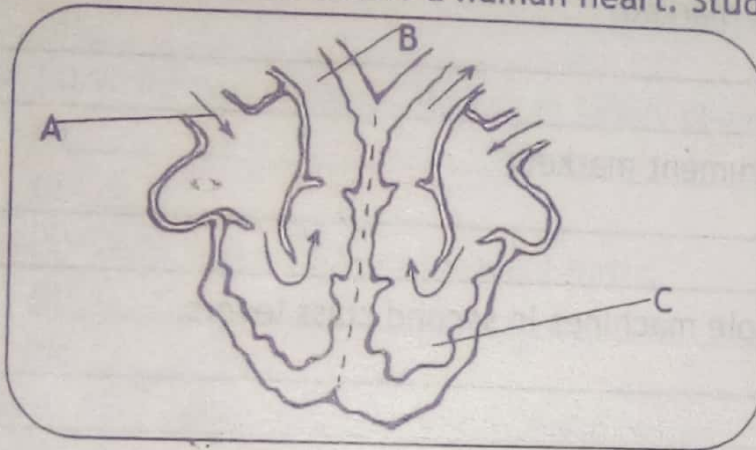
(ii) _____

(b) Give two examples of food stuffs rich in vitamins.

(i) _____

(ii) _____

The diagram below shows a human heart. Study and use it to answer question 53.



53. (a) Name the blood vessels attached to the heart marked;

(i) A _____

(ii) B _____

(b) To which body organ does blood vessel B transport blood?

(c) Why does blood flow to the organ you have mentioned above?

54. (a) Name the device that uses carbon dioxide to put out fire.

(b) Mention two places where the above device is found.

(i) _____

(ii) _____

(c) Why can't oxygen be used in device you have mentioned in 54 (a)?

55. (a) Write two examples of vulnerable groups of people.

(i) _____

(ii) _____

(b) State two factors that affect feeding patterns in a community.

(i) _____

(ii) _____

END