



# BROAD EXAMINATIONS®

## P.7 INTEGRATED SCIENCE EXAMINATION

### PRE-PLE TRIAL SET II 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**

**FOR EXAMINER'S  
USE ONLY**

PAGES	MARKS	SIGN
Page 2		
Page 3		
Page 4		
Page 5		
Page 6		
Page 7		
Page 8		
TOTAL		

Approved by:

*A. M. K.*

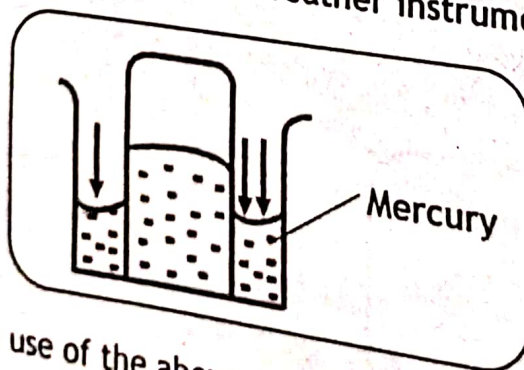
Team Head Science Dept.



### SECTION.A. (40 MARKS)

1. Name the structures that attach a bone to a bone in the human skeletal system.
2. Give the name of an arachnid that gives birth to live young ones.
3. In which one way can farmers prevent their layer birds from laying soft shelled eggs?
4. Give a reason why *lightning* conductors should be installed on tall buildings.
5. Mention any one way of reducing echo in cinema halls.
6. Name the component of air which is given out as a byproduct of respiration.
7. State one way uranium is used as an energy resource.
8. Why does a polythene bag float on water?
9. Write down any one characteristic of essential drugs.
10. Give one way a magnet is useful to a doctor in a hospital.

The diagram below shows weather instrument. Study and use it to answer question 11.

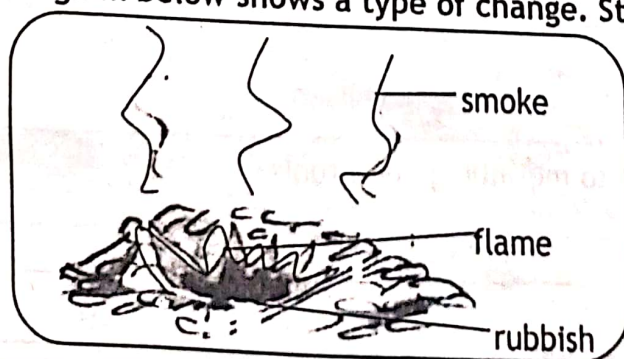


11. State the use of the above weather instrument?
12. How does mulching improve soil fertility?



13. Name the vitamin which is found in carrots.
14. State the way hair on the human skin behaves during coldness.
15. Name the vaccine which protects babies against tetanus.
16. Give a reason why people are encouraged to feed on a balanced diet.
17. State one way how seed dispersal is important in the environment.
18. Name the body part of an insect that enables it to detect bad smell.
19. Give one way how a dustbin helps people in a school to promote sanitation.
20. Why are we unable to see a moving vehicle in a corner?
21. Mention the use of ventilators on a living house.
22. In which one way is soil replaced naturally with the help of bacteria?
23. State the immediate effect of diarrhoea in humans.
24. Give one way domestic animals benefit from agroforestry.

The diagram below shows a type of change. Study and use it to answer question 25.





25. Name the type of change happening in the above diagram.

26. Give a reason why intercostal muscles contract when a person breathes in.

27. Mention one method of preserving food that dehydrates food.

28. State the recommended first aid for fainting.

29. Write down one advantage of rearing local breeds of rabbits.

30. Suggest one way a school can prevent its children from practising antisocial behaviours.

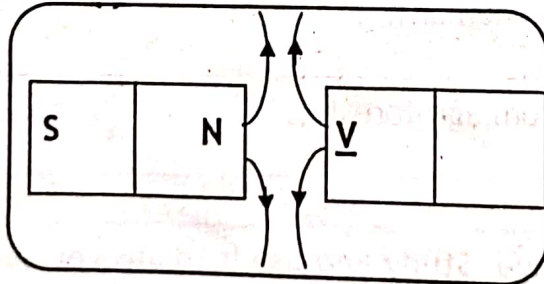
31. Name the sex hormone produced by testes of male human beings.

32. Give one way water is used to promote Primary Health Care.

33. Give any one characteristic of poisonous snakes.

34. In which way is yeast useful to humans?

The diagram below shows a property of magnets. Study and use it to answer question 35.



35. Name the pole marked V.

36. Give one way how rusting is dangerous to metallic garden tools.

37. State a reason why people hear clearer at night than during the day.

38. Name one example of thermometric liquids.

39. State the importance of transpiration in plants.

40. How are incisors adapted to biting food?

### SECTION B: (60 MARKS)

41. (a) Mention two examples of energy resources obtained from fossil fuels.

(i)

(ii)

(b) What type of electricity is obtained by burning fossil fuels?

(c) How is the production of the above type of electricity dangerous to the environment?

42. Complete the table below about immunization.

Disease	Sign	Vaccine
Polio		Polio vaccine
	Swollen neck	DPT vaccine
Tetanus		DPT vaccine
	Chronic dry cough	BCG vaccine

43. (a) Write two signs of pregnancy in women.

(i)

(ii)

(b) Mention two requirements of a pregnant mother.

(i)

(ii)

44. (a) How is each of the following a useful component of an electric circuit?

(i) Ammeter

(ii) Fuse



(b) State one danger of using naked wires in setting up an electric circuit.

(c) Give one way how electricians protect themselves against electric shocks.

45. (a) State two differences between a frog and a toad.

(i)

(ii)

(b) Name two other examples of amphibians apart frogs and toads.

(i)

(ii)

46. (a) Give two examples of materials made out of clay.

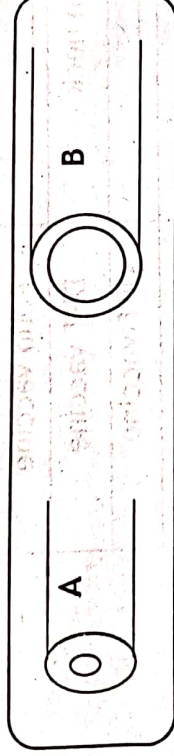
(i)

(ii)

(b) Write one reason why clay soil is preferred in making clay materials.

(c) How are clay made materials made harder?

The diagrams below show types of blood vessels. Study and use them to answer question 47.



47. (a) Name the type of blood vessel marked;

(i) A

(ii) B

(b) Which structural characteristic helps you to differentiate the two types of blood vessels?

(c) How do the two blood vessels differ in terms of the way they carry blood?

48. (a) How are the following types of bees useful in the hive?

(i) Drone bees



(ii) Worker bees

(b) Mention two products made out of beeswax.

(i) \_\_\_\_\_  
(ii) \_\_\_\_\_  
(b) Give two human diseases spread by mosquitoes

(i) \_\_\_\_\_  
(ii) \_\_\_\_\_  
(b) Write down two ways of controlling mosquitoes in our homes.

(i) \_\_\_\_\_  
(ii) \_\_\_\_\_  
(b) How does bush burning cause soil erosion?

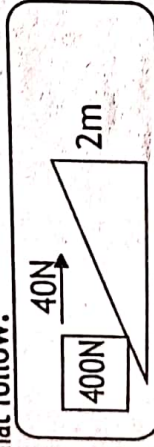
(i) \_\_\_\_\_  
(ii) \_\_\_\_\_  
(b) Name the form of water erosion in which the top soil is washed away by flowing water uniformly.

(c) Mention two dangers caused by soil erosion in the environment.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

The diagram below shows a simple machine, study and use it to answer questions that follow.



51. (a) Name three class of simple machines shown in the above diagram.

(b) Give two uses of the above machine in our daily life activities.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

(c) Calculate the mechanical advantage of the above machine.

52. (a) Give two ways farm records are important to cattle farmers.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_