



# BROAD EXAMINATIONS®

## P.7 PRE-PLE TRIAL SET III 2024

### INTERGRATED SCIENCE EXAMINATION

*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.
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.

#### FOR EXAMINERS' USE ONLY

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

**Teacher's comment to the learner**

.....

.....

.....

.....

Approved by:

*[Signature]*

**Team Head Science Dept.**

**SECTION .A. (40 MARKS)**

1. Name the fluid that reduces friction between bones at a joint.  
\_\_\_\_\_
2. State the role of enzymes in digestion of food.  
\_\_\_\_\_  
\_\_\_\_\_
3. In which way is a drenching gun useful to a livestock farmer?  
\_\_\_\_\_  
\_\_\_\_\_
4. State the role of a drone bee in the hive.  
\_\_\_\_\_
5. Name the condition necessary for germination that dissolves food stored in the cotyledon of a bean seed.  
\_\_\_\_\_
6. How is a magnet useful to a person using a six's thermometer?  
\_\_\_\_\_  
\_\_\_\_\_

The diagram below shows a male reproductive cell. Use it to answer question 7.



7. Name the part of a reproductive cell marked W.  
\_\_\_\_\_
8. Mention one root crop which contains vitamin A that improves eye sight in humans.  
\_\_\_\_\_
9. State the function of feathers to a broody hen.  
\_\_\_\_\_
10. Give a reason why an earthworm is regarded as an invertebrate.  
\_\_\_\_\_
11. How is heat loss or gain by radiation prevented in a thermos flask?  
\_\_\_\_\_  
\_\_\_\_\_
12. Name the element of weather that helps a windmill to function.  
\_\_\_\_\_
13. In which way is a fuse useful in an electric circuit?  
\_\_\_\_\_  
\_\_\_\_\_
14. Give a reason why the walls of the left ventricle of the heart are thick walled.  
\_\_\_\_\_  
\_\_\_\_\_

15. Give any one adaptation of the ileum to absorption of digested food.

16/11/21

16. Write down any one factor to consider before starting a livestock farm.

17. State the effect of hookworms in the human body.

18. Suggest a reason why an aeroplane is made of a streamlined body.

19. In which way are houseflies dangerous to human eyes?

20. In which way is overdose dangerous to human health?

The diagram below shows a type of fracture. Use it to answer question 21.



21. Name the type of fracture above.

22. Give a reason why water is called a universal solvent.

23. Name the component of air that supports combustion.

24. Give a reason why lopping is a good method of harvesting trees for firewood.

25. State the reason why plants are called renewable resources.

26. How is colostrum useful to a calf?

27. Give one reason why rings of cartilage are important to the trachea.

28. Mention one non-living agent of soil erosion.

29. Give a reason why a stretcher cannot be found in a first aid box.

30. In which way is echo useful to bats at night?

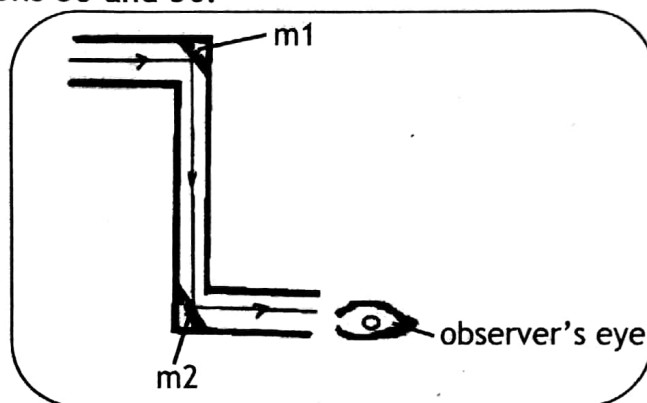
31. Name the physical change which leads to formation of nimbus clouds in a water cycle.

32. Give one way a child health card is important to a doctor.

33. How is a vent pipe useful on a VIP latrine?

34. Mention the disease spread by tsetse flies to cattle.

The diagram below shows an equipment used in reflection of light. Use it to answer questions 35 and 36.



35. Name the equipment drawn above.

36. In which way is the above equipment useful to a soldier in a trench?

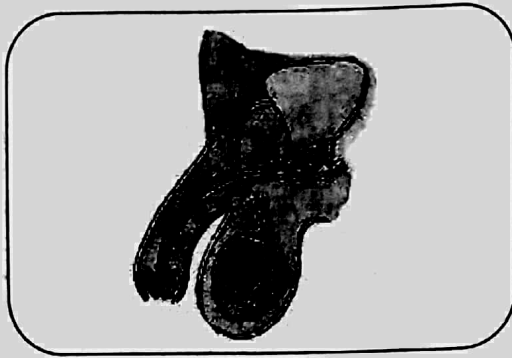
37. Mention the part of a maize grain that stores food for the embryo.

38. State any one effect of drug abuse commonly seen among youths who take marijuana.



39. Give one factor that determines the floating or sinking of an object.

Below is a diagram showing artificial permanent method of family planning. Use it to answer question 40.



40. Name the method of family planning in males drawn above.

### SECTION .B. (60 MARKS)

41. (a) Write down any two activities done in promotion of community hygiene.

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

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

(b) Give one major reason for promotion and maintenance of community hygiene.

(c) Name any one disease that breaks out due to poor community hygiene.

42. (a) Name two electric charges that are active in static electricity.

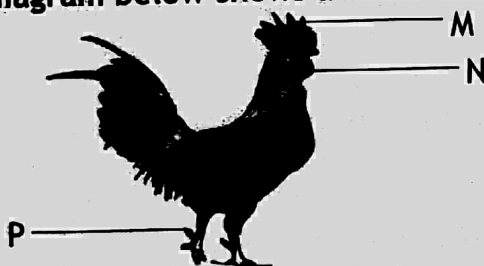
(i) \_\_\_\_\_

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

(b) Name the static electricity in nature.

(c) State the law of electric charges.

The diagram below shows a cock. Use it to answer question 43.



43. (a) Name the external features marked;

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

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

43. (a) Give any two disorders.  
(b) State the function of part marked P to a cock.

(c) State any one difference between a cock and a hen.

44. (a) Give a reason why duck billed platypus is grouped under mammals yet it lays eggs.

(b) Apart from duck billed platypus, mention another example of egg laying mammals.

(c) State any two similarities between mammals and birds.

(i)

(ii)

45. (a) What is a sprain?

(b) State the first aid for a sprain.

(c) Give two other examples of disorders of the musculo-skeletal system.

(i)

(ii)

46. (a) State the role of cortex in the kidney.

(b) Give two examples of wastes excreted by the kidneys.

(i)

(ii)

(c) Name the part of the kidney where selective re-absorption takes place.

47. (a) List two methods of administering vaccines in the human body.

(i)

(ii)

(b) Name the vaccines administered on each of the following body sites;

(i) Right upper arm

(ii) Left upper arm

48. (a) Give a reason why sugar is used in preparation of ORS.

(b) Mention another solute used in making ORS.

(c) Name any one mineral salt lost during dehydration.

(d) State one sign of dehydration.

49. (a) How is the sun useful in a food chain?

(b) What scientific term is given to plants in a food chain?

(c) In which way are bacteria useful in a food chain?

(d) State a reason why a goat is called a primary consumer in the food chain.

50. Match the parts of the eye and those of a camera that have the same function.

Eye

Camera

Iris

film

pupil

shutter

eyelids

aperture

retina

diaphragm

(i) iris

(ii) pupil

(iii) eyelids

(iv) retina

51. (a) How is a scald different from a burn?

(b) State two causes of burns and scalds in a home.

(i)

(ii)

(c) Give one way burns and scalds can be controlled at home.

52. (a) Why are proteins recommended in the diet of babies?

(b) What can go wrong if children are not given enough proteins in their diet?

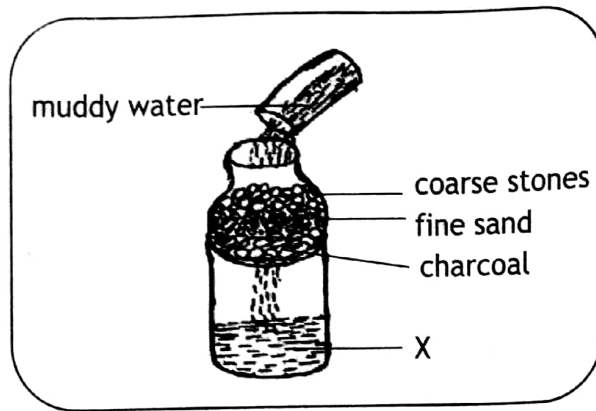
State the function of part marked P to a cock.

(c) Mention two food stuffs rich in proteins.

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

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

The diagram below shows a method of cleaning water at home. Use it to answer question 53.



53. (a) Name the method of preparing clean water drawn above.

(b) Give a reason why water got at X is not good for drinking.

(c) State the role played by;

(i) fine sand.

(ii) charcoal.

54. (a) Give any two practices done under identification of cattle apart from branding.

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

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

(b) Name the part of an animal where branding is usually done.

(c) Suggest one disadvantage of identifying animals by branding.

55. (a) Mention two functions of ears on the human body.

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

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

(b) Which part of each of the following animals can be compared to the human ear;

(i) fish? \_\_\_\_\_

(ii) frogs? \_\_\_\_\_

**END**