

# **BROAD EXAMINATIONS®**

## **P.6 INTEGRATED SCIENCE EXAMINATION**

### **END OF TERM II 2024**

Time allowed: 2 hours 15 minutes

Pupil's Name: .....

School Name: .....

District 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.**

FOR EXAMINERS' USE ONLY		
PAGES	MARKS	SIGN
Page 2		
Page 3		
Page 4		
Page 5		
Page 6		
Page 7		
Page 8		
<b>TOTAL</b>		

**Teacher's comment to the learner**

Approved by:  
Amanullah -  
Team Head Science Department

SECTION .A. (40 Marks)

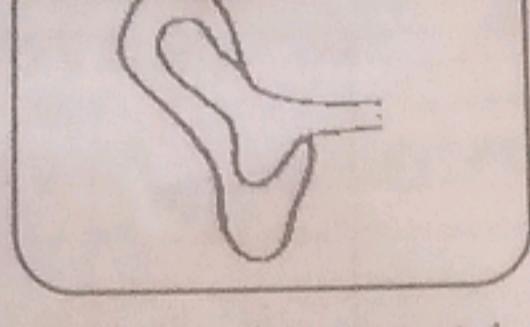
1. Mention any one agent of soil erosion.

2. What do we call structures that keep the trachea open all the time?

3. In which way are houseflies harmful to man?

4. State the use of sunlight energy during photosynthesis.

Below is a diagram of an external part of the human ear. Use it to answer question 5.



5. State the function of the above part in the functioning of the human ear.

6. Mention one modern method of preserving food.

7. In which way is echo useful to bats?

8. Write down any one characteristic of insect pollinated flowers.

9. Mention any one element of Primary Health Care that can help in prevention of communicable diseases.

10. State one way a tortoise protects itself from enemies.

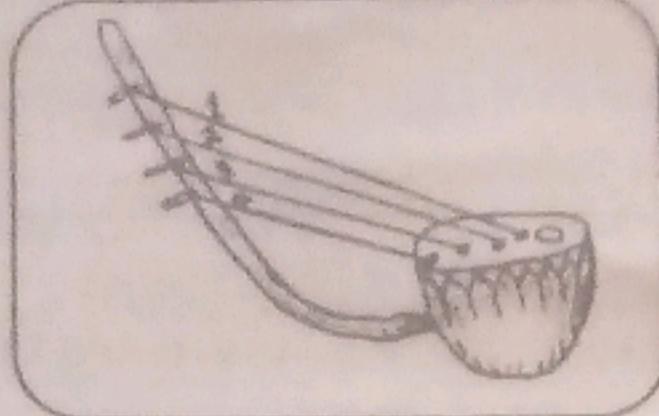
11. Write down any one way germs enter our bodies.

12. Which process in plants contributes water vapour to the water cycle?

13. In which way do crop pests reduce crop yields?

14. What type of energy is possessed by a ball resting on the ground?

Below is a diagram of a musical instrument. Use it to answer questions 15 and 16.



15. Name the musical instrument above.

16. How is the above musical instrument made to produce high pitched sound?

17. Give any one importance of litter in a poultry house.

18. In which way is severe vomiting dangerous to man?

19. Name the component of air used as a raw material for photosynthesis.

20. How do plants such as ferns and mosses reproduce?

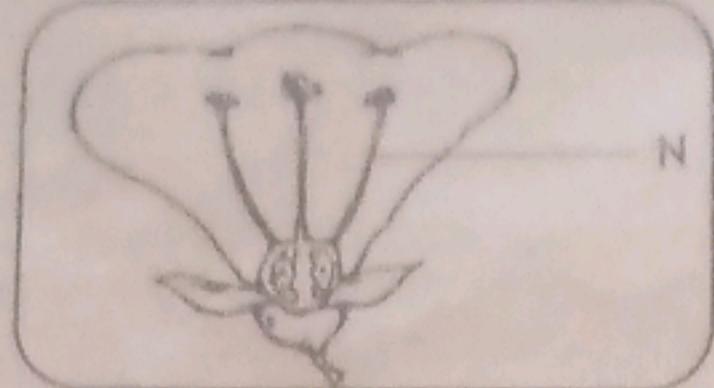
21. State one way in which mulching improves soil fertility.

22. Name the item used in promoting personal hygiene that kills germs on the body.

23. How are blood platelets important in the human body?

24. In which way is the reproduction of bacteria different from that of mushrooms?

Below is a diagram of a flower. Use it to answer question 25.



25. Name the part of a flower marked N.

26. Mention the method of making alcohol that uses yeast.

27. Apart from regular brushing of teeth, how else can tooth decay be prevented in humans?

28. State any one reason breastfeeding is recommended for babies below six months of age.

29. Mention one example of exotic dairy breeds of cattle.

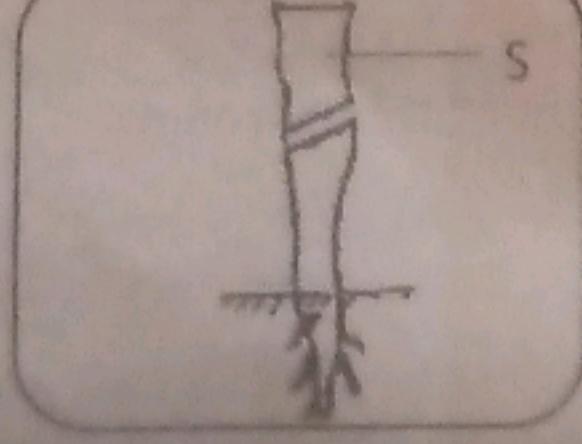
30. How is smoking harmful to the human respiratory system?

31. Name the germ that causes typhoid.

32. Apart from pregnant mothers, give any one other example of vulnerable groups of people.

33. How is dampness prevented from affecting rabbits in their hutch?

Below is a diagram of artificial method of plant propagation called grafting. Use it to answer question 34.

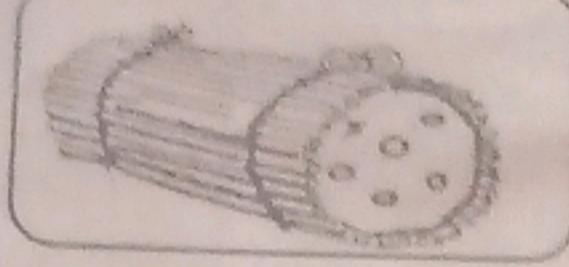


34. What scientific name is given to the part of a plant used in propagation marked S?

35. Give one way clay soil is useful to P.2 children.

36. Give a reason for including vitamins in one's diet.

Below is the diagram of a bee hive. Use it to answer question 37.



37. Name the bee hive drawn above.

38. Give the reason why non-renewable resources should be used sparingly.

39. State the difference between drug abuse and drug misuse.

40. Name the intestinal worms that can cause anaemia in humans.

#### SECTION .B. (60 Marks)

Below is a table showing classification of animals. Use it to answer question 41.

A	B	C	D
snake	newt	hen	squid
lizard	salamander	eagle	snail

41. (a) In which two ways are animals in groups A, B and C similar?

- (i) \_\_\_\_\_  
(ii) \_\_\_\_\_

(b) To which group of invertebrates do animals in D belong?

(c) Name one other animal that belongs to group A.

42. (a) State one advantage of using natural fertilizers (organic manure).

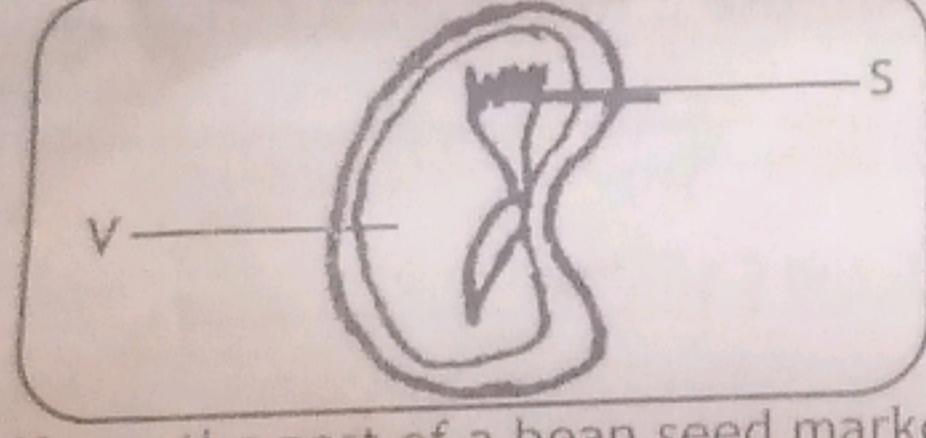
(b) Mention two examples of natural fertilizers.

- (i) \_\_\_\_\_  
(ii) \_\_\_\_\_

- (c) State the main reason for adding fertilizers to the soil.
43. (a) Give any two functions of proteins in the human body.  
(i) \_\_\_\_\_  
(ii) \_\_\_\_\_
- (b) What can go wrong if a person does not feed his/her body with enough proteins?  
\_\_\_\_\_
- (c) Name any one food that is a good source of proteins.  
\_\_\_\_\_
44. (a) Apart from oxygen, mention one other material needed by the body to carry out respiration.  
\_\_\_\_\_
- (b) How is respiration important to the human body?  
\_\_\_\_\_
- (c) State the role of oxygen during respiration.  
\_\_\_\_\_

(d) Why does a running person breathe faster than normal?  
\_\_\_\_\_

Below is a diagram of a bean seed. Use it to answer question 45.



45. (a) Name the part of a bean seed marked;  
(i) S \_\_\_\_\_  
(ii) V \_\_\_\_\_
- (b) Which part of a bean seed comes out first during germination?  
\_\_\_\_\_
- (c) What type of germination do bean seeds undergo?  
\_\_\_\_\_
46. (a) State the function of the human heart.  
\_\_\_\_\_
- (b) Name the muscle of the heart that separates oxygenated blood from deoxygenated blood.  
\_\_\_\_\_

(c) State a reason why the walls of the left ventricle are thick walled.

(d) In which way are valves useful in the human heart?

47. Below is an immunisation table. Complete it correctly.

disease	vaccine	site
tuberculosis	(i)	right upper arm
(ii)	measles vaccine	left upper arm
polio	polio vaccine	(iii)
(iv)	DPT vaccine	left upper thigh

48. (a) Mention two types of digestion.

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

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

(b) Which enzyme is contained in saliva?

(c) Name the acid that kills germs which enter the stomach with food.

49. (a) Give a reason why rearing of merino sheep is useful to a textile industry.

(b) Which breed of goats is also useful to a textile industry?

(c) Mention two products made from animal hides and skins.

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

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

50. (a) State the use of a rain gauge at a weather station.

(b) Give a reason why a rain gauge is raised some centimetres above the ground.

(c) Mention any two other weather instruments found at a weather station.

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

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

51. (a) Mention any two factors that lead to alcoholism in a community.

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

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

- (a) State any one effect of alcoholism to an individual.
- (b) Suggest any one way you, as a P.6 child, can help a friend to avoid taking of alcohol.

The diagram below shows part of a structure found on a cattle farm. Use it to answer question 52.

52. (a) Name the structure shown above.



(b) Which method of grazing cattle uses the above structure?

(c) Give two reasons why the above structure is useful on a cattle farm.

(i)

(ii)

53. (a) How is a cork useful to a thermos flask?

(b) Mention two materials used to make the cork of a thermos flask.

(i)

(ii)

(c) State the reason why the walls of a thermos flask are silvered.

54. (a) Mention two examples of seeds dispersed by wind.

(i)

(ii)

(b) State two characteristics of fruits dispersed by wind.

(i)

(ii)

55. (a) State any two differences between mass and weight.

(i)

(ii)

(b) Give a reason why objects weigh less on the moon than on earth.

(c) Name the method used in measuring volume of irregular objects.

END