



# THE REAL PRIVATE TEACHERS' VOICE EXAMINATIONS BOARD

## THE REAL VERIFIED UNEB BLUE PRINT ITEMS

### FOR PRIMARY LEAVING EXAMINATIONS

2023

### INTEGRATED SCIENCE (SET FOUR)

*Time allowed: 2 Hours 15 Minutes*

Index no:

Random No					Personal No		

Candidate's name: .....

Candidate's signature: .....

School: .....

District : .....

### 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 **16** 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 or ink. All diagrams  
Should be in pencil.
6. Unnecessary crossing of answers will lead to loss of  
Marks.
7. Poor hand writing which cannot be easily read,  
May lead to loss of marks.

FOR EXAMINERS' USE ONLY		
Qn. No	MARKS	SIGN
1 – 10		
11– 20		
21 – 30		
31– 40		
44 – 46		
47 – 48		
49 - 51		
52 - 53		
54 - 55		
TOTAL		

The Real Private Teachers' Voice Examinations Board 2023.

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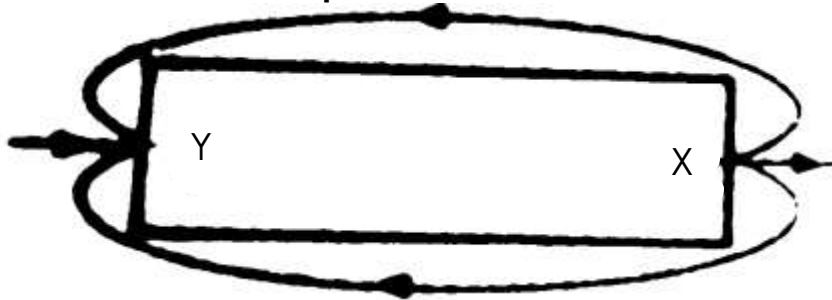
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## SECTION A (40MKS)

1. Name one group of crops that improve soil fertility.  
\_\_\_\_\_
2. Write down the activity done by a bee keeper to tame bees in a hive before harvesting honey.  
\_\_\_\_\_
3. What is the importance of vitamins in the human body?  
\_\_\_\_\_
4. How is bush fallowing important to the soil?  
\_\_\_\_\_
5. Why is it advisable to take plenty of water after eating and chewing food?  
\_\_\_\_\_
6. State any one way in which scabies can be controlled among school children.  
\_\_\_\_\_

**The diagram below shows a bar magnet with two poles. Use them to answer questions 7 and 8.**



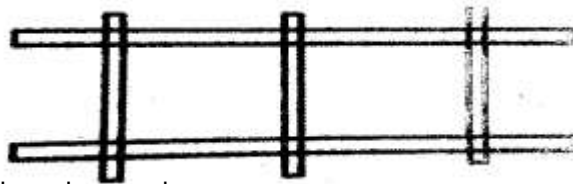
7. What pole of a magnet is formed at Y?  
\_\_\_\_\_
8. State briefly what would happen if the above magnet is freely suspended in air.  
\_\_\_\_\_
9. Give any one way in which a PIASCY club can control the spread of HIV/AIDS among school children.  
\_\_\_\_\_
10. Name the mineral that strengthens the enamel of the human tooth.  
\_\_\_\_\_
11. How is a stone different from a cuboid in terms of their shapes?  
\_\_\_\_\_
12. Why is a tape worm called an intestinal worm?  
\_\_\_\_\_
13. How does Marijuana smoking affect a school child?  
\_\_\_\_\_
14. State any one element of PHC which is important in the prevention of under weight birth.  
\_\_\_\_\_



15. State any one way of conserving fish.

16. Name the vector which spreads polio disease to people.

**The diagram below shows a farm structure in cattle. Use it to answer questions 17 and 18.**



17. Name the farm structure above.

18. How is the above structure important to cattle farmers?

19. In which way is water important in the growth of plants in the environment?

20. Give any one way in which a zebra crossing can reduce chances of accidents when crossing a busy road.

21. Name any one body organ that removes waste products from the body.

22. Give any one condition that may force a fuse to melt in a complete circuit.

23. State any one way in which an adolescent can manage problems caused by emotional and psychological body changes.

24. Mention one way in which you can easily remove stains from dirty clothes during washing.

25. State one way in which the spread of influenza can be controlled.

26. State one structural difference between solids and other states of matter.

27. Mention any one way in which water can get contaminated after boiling it.

28. How does having regular physical exercises promote proper working of the digestive system?

29. Give one reason why it is important to carry out dental flossing.



30. Apart from using synovial fluid, give one other way friction is reduced is reduced between bones at a joint.
- 
31. State one way in which sunlight is important to a plant during photosynthesis.
- 
32. Write down any one activity done by members in a Young Farmer's Club to conserve soil in a school garden.
- 
33. State any one reason why ordinary pit latrines should be regularly smoked at home?
- 
34. Why is a pregnant woman regarded as vulnerable?
- 
35. Give one way in which a fern is similar to a bean plant.
- 

**The diagram below shows a bird. Use it to answer questions 36 and 37.**



36. Identify the class of birds to which the above bird belongs.
- 
37. How does the above bird purify the environment?
- 
38. Give any one way in which fainting can be prevented among children at school.
- 
39. State on way in which music stored by staff notation can be reproduced.
- 
40. Give any one effect of drought in an area.
- 

### **SECTION B (60 Marks)**

41. **The table below has two parts. Part A has parts of a dicotyledonous seed and B has uses of the parts in a wrong order.**

A(part)	B(Use)
Testa	Grows into shoot system.
Cotyledon	Allows air and water into the seed.
Micropyle	Stores food for the embryo.
Plumule	Protects the inner parts of a seed



**Pick use from B to match the parts of the dicotyledonous seed from A as shown below.**

- i) Testa \_\_\_\_\_
- ii) cotyledon \_\_\_\_\_
- iii) micropyle \_\_\_\_\_
- iv) plumule \_\_\_\_\_

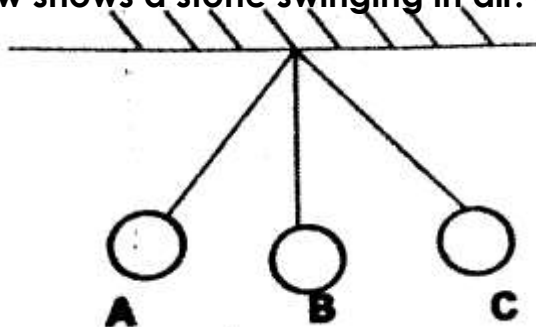
42. a). Identify a method used to separate mixtures with different;

- i) boiling points \_\_\_\_\_
- ii) densities \_\_\_\_\_

b). In one sentence, give the meaning of the following terms.

- i) miscible liquids \_\_\_\_\_
- ii) immiscible liquids \_\_\_\_\_

43. The diagram below shows a stone swinging in air. Use it to answer questions that follow.



- a). State the type of energy possessed by a stone at **A**.  
\_\_\_\_\_
- b). Give a reason for the answer stated in (a) above.  
\_\_\_\_\_
- c). What energy change does the stone undergo between B and C?  
\_\_\_\_\_
- d). Give a reason why the stone possesses the same type energy at A and C  
\_\_\_\_\_

44.a). What form of energy is produced by a dry cell?

b). A panasonic radio has a total voltage of 12. How many dry cells does it need if each dry cell has a voltage of 1.5? (3mks)



45.a). Name the body organ responsible for making white blood cells?

b). State one characteristic that enables red blood cells carry oxygen.

c). Which two ways do white blood cells defend the body from disease germs.

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

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

46. a) Name the group of arthropods to which the following belong:

i) cyclops \_\_\_\_\_

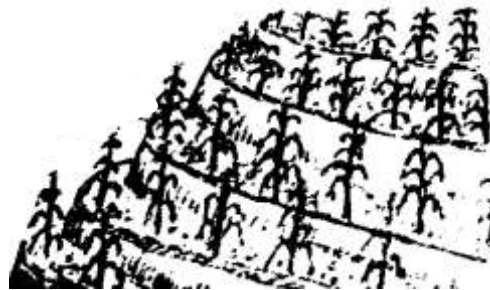
ii) scorpion \_\_\_\_\_

b). State two similarities between a cyclops and a scorpion.

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

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

47. **Below is a diagram of a method used to control soil erosion on hilly areas. Use it to answer questions that follow.**



a). Name the method of farming shown in the above diagram.

b). How does the method of farming above control soil erosion in hilly areas?

c). Apart from the method mentioned in (a) above, mention down two other methods used to control soil erosion in hilly areas.

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

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

48.a). Give two ways people misuse essential drugs at home.

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

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

b). Identify any two causes of drug misuse at home.

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

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

49. a). Mention any two methods of plant training.

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

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



c). Give two reasons why farmers carryout staking.

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

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

50. a). Give two ways a coconut seed is adopted to water dispersal.

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

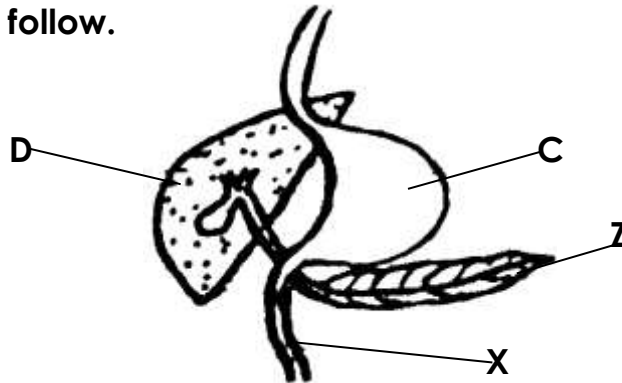
ii) \_\_\_\_\_

b). Name the group of succulent fruits to which each below belongs.

i) tomato \_\_\_\_\_

ii) avocado \_\_\_\_\_

51. **The diagram below is of a human digestive system. Study it carefully to answer questions that follow.**



a). Name any one enzyme that acts on food in part X.

b) State the role carried out by part C during the mechanical process of food digestion.

c). Name the part labelled Z.

d) Give any one disease that can attack the system above.

52. a). Identify any two ways of putting out fire.

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

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

b). Why is water not recommended to put out petrol fire?

c). How does painting prevent a metal from rusting?



53.a). Give the meaning of the following terms;

i) monoculture

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ii) harrowing

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b). State two disadvantages of practising monoculture.

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

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

54. **You are provided with a mixture of sand and salt. Write down the four steps you would take to separate the lost salt from sand.**

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

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

iii) \_\_\_\_\_

iv) \_\_\_\_\_

\_\_\_\_\_

55. a). Write down any two activities that can be done in order to increase milk production in a Friesian cow.

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

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

b) State down two characteristics of a Friesian breed of cattle.

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

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

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