



# THE REAL PRIVATE TEACHERS' VOICE EXAMINATIONS BOARD

## THE REAL VERIFIED UNEB BLUE PRINT ITEMS

### FOR PRIMARY LEAVING EXAMINATIONS

2023

### INTEGRATED SCIENCE (SET FIVE)

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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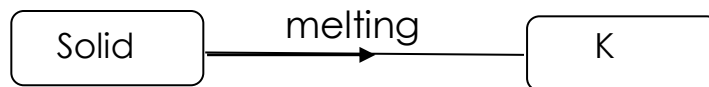
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## SECTION A (40MKS)

1. Name the type of cloud that is a sign of fine weather.  
\_\_\_\_\_
2. How can the breeding of bedbugs be controlled at home?  
\_\_\_\_\_
3. What type of soil erosion is caused when rain drops fall on the bare soil with force?  
\_\_\_\_\_
4. State one disease of the circulatory system prevented by draining stagnant water.  
\_\_\_\_\_
5. How is the cotyledon of a bean seed different from the cotyledon of a maize seed in function?  
\_\_\_\_\_
6. Which part of a cow is affected by foot and mouth disease?  
\_\_\_\_\_

**The illustration below shows a change in state of matter. Use it to answer questions 7 and 8.**



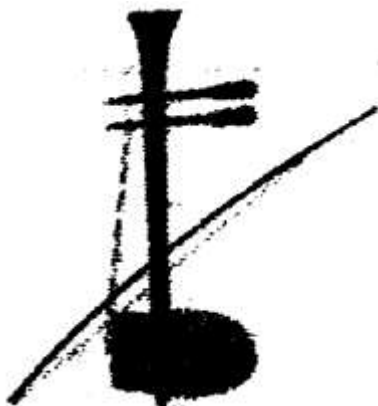
7. What is the state of matter at K?  
\_\_\_\_\_
8. Name the process by which K changes back to solid.  
\_\_\_\_\_
9. State the principle on which an electric torch works.  
\_\_\_\_\_
10. State any one condition that allows rusting to take place.  
\_\_\_\_\_
11. Mention down an energy resource from plants that is obtained by burning wood under little oxygen supply.  
\_\_\_\_\_
12. Besides sexual intercourse, state another way HIV can spread between married people.  
\_\_\_\_\_
13. Which method of heat transfer keeps a lit charcoal stove burning?  
\_\_\_\_\_
14. How are wood shavings important to a bee keeper?  
\_\_\_\_\_



15. State one difference between annual crops and perennial crops.

16. Give a reason why objects weigh less on the moon than on earth.

**The diagram below is of a musical instrument. Use it to answer questions 17 and 18.**



17. Name the group of instruments to which the instrument above belongs.

18. How can the pitch of the above instrument be varied?

19. Write down one activity a wildlife club can do to conserve trees in a community.

20. How is a saanen goat similar to a Friesian cow in terms of their purpose?

21. State one danger of untreated gonorrhea to a pregnant mother.

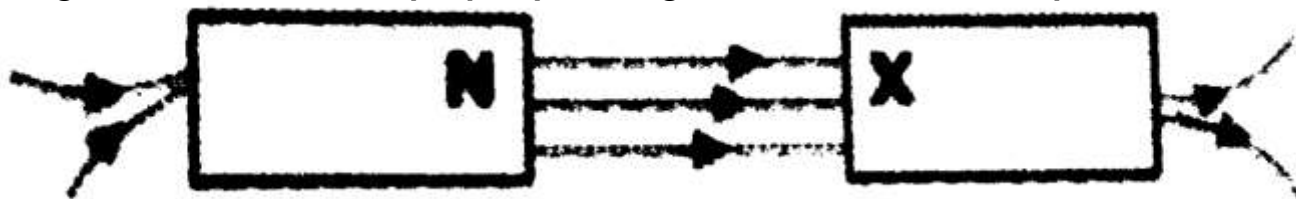
22. How does skin regulate the human body temperature on a cold day?

23. State one way over consumption of alcohol can lead to poverty in a home.

24. How does the habit of wearing shoes help to prevent humans against anaemia?

25. Give a reason why it is a good health practice to wash clothes with soap.

**The diagram below shows a property of magnets. Use it to answer questions 26 and 27.**



26. What will be the pole at X after attraction?



27. State the property of magnets shown in the illustration above.
- 
28. Name the type of lens used to correct short sightedness.
- 
29. Apart from getting manure, give any other way in which plants benefit from rabbits.
- 
30. State any one characteristic of voluntary muscles.
- 
31. Apart from Black australop and Wyandotte, name one other dual purpose chicken breed.
- 
32. Give any one characteristic of a swimming bird.
- 
33. How do mosquitoes spread diseases to people?
- 

**The diagram below is a part of a flower. Use it to answer questions 34 and 35.**



34. Give the scientific name for the plant above.
- 
35. How is part X similar to the testes of animals in function?
- 
36. State the human respiratory disease whose signs are noisy cough with mucus and difficulty in breathing.
- 
37. Name the disease of the human digestive system that makes one feel a lot of pain in the lower right hand side of the abdomen.
- 
38. Identify one reason why a person giving a kiss of life to a near drowning person should put a clean cloth on the victim's mouth.
- 
39. Give any one harmful effect of herbicides to the soil.
- 
40. State the method which can be used to separate a mixture where one sinks and other floats.
- 



### SECTION B (60 Marks)

41.a). State the energy resource made from animal wastes like cow dung.

b). In which two ways is biogas energy useful to people in rural area?

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

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

c). State one way how biogas production promotes sanitation in the environment.

\_\_\_\_\_

42. a). How is the skeletal system important to the circulatory system?

\_\_\_\_\_

b). State the type of movable joint where each of the following joints belong.

i) elbow joint

\_\_\_\_\_

ii) wrist joint

\_\_\_\_\_

c). Give one use of joints in the human body.

\_\_\_\_\_

43. The diagram below shows the seeds dispersed by different agents. Use it to answer questions that follow.



a). Name the method of dispersal for the seed in;

i). **P** \_\_\_\_\_

ii). **Q** \_\_\_\_\_

b). How do books enable the seed in P to be easily dispersed by animals?

\_\_\_\_\_

c). State one difference in structure between seeds P and Q as shown in the diagram above.

\_\_\_\_\_

\_\_\_\_\_



44.a). How is each of the following dangerous in treatment of diseases?

i) under dose

ii). over dose

b). Give any two ways through which drug misuse can be controlled at home.

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

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

45. **The experiment below was done by a P.5 class about burning. Study it carefully to answer questions that follow.**



Water level



Water level

a). What does the experiment above prove?

b). Why did the candle go off after some time in **B**?

c). Why did the water level rise inside the bell jar in **B**?

d). State what would happen to the candle if the bell in jar was removed in **B**.

46. a) State one way of reducing friction between moving wheel of a bicycle.

b). How do ball bearings reduce friction?

c). State the type of friction possessed by;

i) a flying eagle \_\_\_\_\_

ii) ball bearings \_\_\_\_\_

47.a). State the type of blood vessels carrying blood under;

i). low pressure \_\_\_\_\_

ii). high pressure \_\_\_\_\_

b). State two characteristics of blood vessels that carry blood under low pressure.

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

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



48. Complete the table below by filling in the missing words.

Disease	Vaccine	Administration body site.
Hepatitis B	i).	Injection on the left upper led
ii).	BCG vaccine	Injection on the right upper arm.
Polio Myelitis	iii)	Drops in the mouth.
Pneumonia	PSV	iv)

49. a). Name the enzyme that breaks down cooked starch into maltose.

c). State the role of the teeth during mechanical digestion of food in the mouth.

d). Give any one enzyme that works under;

i). acidic conditions \_\_\_\_\_

ii). alkaline conditions \_\_\_\_\_ Water level

50. a). Give the name of the first milk produced by a cow after calving.

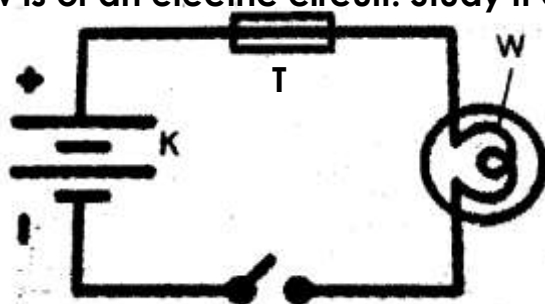
b). State two benefits of the milk you have named in (a) above to a calf.

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

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

c). Identify one advantage of hand milking.

51. The diagram below is of an electric circuit. Study it carefully to answer questions that follow.



a). Name the part labelled **T**

b) How is part named in (a) above adapted to its function?

c). Mention down the energy change that takes place in K and W when the circuit is complete.

i). K \_\_\_\_\_

ii). W \_\_\_\_\_



52. a). Name the deficiency disease that results from lack of iron in the human body.

b). Give any two food stuffs which give us iron.

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

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

c). State any one sign of the deficiency disease in (a) above.

53. Give any two similarities between reptiles and amphibians.

a) Similarities

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

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

b) Differences

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

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

54. a). Give any one example of:-

i) Communicable disease \_\_\_\_\_

ii) Non communicable disease \_\_\_\_\_

b). Give any two ways how communicable diseases spread.

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

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

55. a). Write down any two elements of PHC.

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

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

b) State one way how the following elements of PHC can be promoted.

i) Personal hygiene

\_\_\_\_\_

ii) Food and nutrition

\_\_\_\_\_

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