



UNEB ITEM CODE 4 2023

INTEGRATED SCIENCE

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,

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		

SECTION A

1. Which organ in the human body removes the harmful alcoholic substances from the body?
.....
2. When does a plant wilt?
.....
3. Which part of the plant holds it firmly into the soil?
.....
4. Give **one** practice that can prevent the spread of lice among people.
.....
5. What system in the body of a mammal controls the amount of water in the blood?
.....
6. Why is tepid sponging an important first Aid to a person with high fever?
.....
.....
7. Mention any **one** reason why bacteria are grouped among living things.
.....
.....
8. Which disease is caused by the shortage of iodine in the human body?
.....

9. Name the injury **one** gets when a hot metal touches the skin.

.....

10. What name is given to plants which have root nodules?

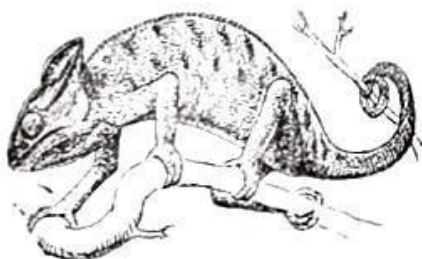
.....

11. Why does an insect whose abdomen is dipped in water for a long time die?

.....

.....

Use the diagram below to answer question **12** and **13** correctly.



12. To what grouping does the animal in the above diagram belong?

.....

13. How does the above animal evade its enemies?

.....

14. In which way are polio and rickets as skeletal diseases different?

.....

.....

15. What is the importance of the valves in the human heart?

.....

.....

16. Apart from having weight, give another reason why air is considered to be matter.

.....

.....

17. Mention **one** way drug poisoning can be prevented among young children at home.

.....

18. State any **one** way people can get worm infections.
.....
19. In which way can air circulation in a Ventilated Improved Pit (VIP) latrine be improved?
.....
20. How can a person avoid passive smoking?
.....
21. What structures do poisonous snakes use to inject poison in their victims?
.....
22. Why are gaps left between rails in a railway line?
.....
.....
23. Identify **one** good practice a farmer having a slopping land should do when cultivating it.
.....
24. In which way is the type of reproduction of plants using seeds similar to the reproduction in mammals?
.....
25. Apart from leaves, state **one** other part of the plant which provides people with food.
.....
26. Identify **one** similar way both the spread of leprosy and Tuberculosis can be prevented.
.....
27. Why do frogs have sticky tongues?
.....
.....
28. Name any **one** characteristic both insects and Arachnids have in common.
.....

29. What name is given to the process by which all living things duplicate themselves?

.....

30. Which cells of the immune system are affected by the HIV / AIDs?

.....

31. How is a strain different from a fracture as disorders of the skeleton?

.....

.....

The diagram below is of a plant stem. Use it to answer questions **32** and **33** correctly.



32. What name is given to the type of stem shown above?

.....

33. State **one** example of a plant which has the type of stem above.

.....

34. In which part of the spore bearing plant are the spores found?

.....

35. State **one** way how humus is formed in the soil.

.....

36. Name the structure that separates the chest cavity from abdominal cavity.

.....

37. Why does a fish die soon it has been removed from the water?

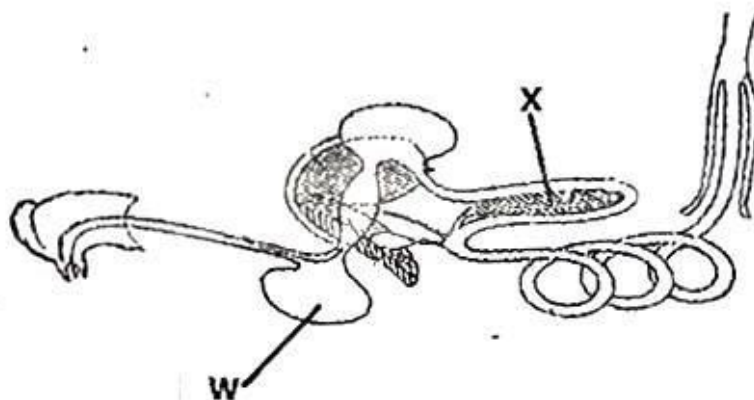
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38. How are the feet of climbing birds adopted to their function?

.....

.....

The diagram below is of the alimentary canal of a bird. Use it to answer questions **39** and **40** correctly.



39. Name the part marked **W**.

.....

40. What is the function of the part marked **X**?

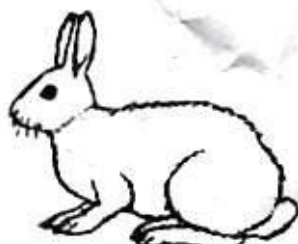
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SECTION B

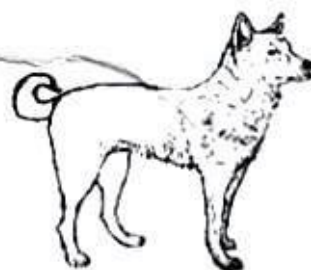
41. The diagram below is a **feeding** relationship between organisms. Use it to answer the question that follow.



Rice plant



Rabbit



Dog

- Draw the arrows to show the flow of energy.
- Name the primary consumer in the food chain above.

.....

c) List down;

(i) The primary producer

(ii) The secondary consumer

42. Below is a list of activities people do in the environment. Use it to answer questions that follow.

- Dumping industrial wastes
- Sand mining
- Agro forestry
- Wood harvesting
- Rice growing in swamps.

a) Which activity above is likely to increase the spread of malaria?

.....

b) Identify an activity which can increase carbondioxide in the atmosphere.

.....

c) State an activity which can affect water percolation in the soil.

.....

d) Which activity can contribute to rainfall formation?

.....

43. Name the **four** parts that make-up a complete simple electric circuit.

(i)

(ii)

(iii)

(iv)

44a) List down any **three** activities in Primary Health Care (PHC) the community can do in the fight against malaria.

(i)

(ii)

(iii)

b) Identify the element of PHC useful in the fight against deficiency diseases in a home.

.....

45a) Apart from water, name any **two** other materials that can be mixed in a biogas digester.

(i)

(ii)

b) What is the importance of water in a biogas digester?

.....

c) Mention **one** way you can make use of biogas energy.

.....

46a) Name the type of germ that causes gonorrhea disease.

.....

b) What are the **two** similar effects of untreated gonorrhea in both men and women?

(i)

(ii)

c) Mention any **one** antibiotic used in the treatment of gonorrhea.

.....

47a) How are the black smiths such as sigiri makers important in the conservation of our environment?

.....

.....

b) Mention **two** advantages of the blacksmith's activities to the environment.

(i)

(ii)

c) Apart from charcoal stoves, name any **one** other product such blacksmiths make in our environment.

.....

48a) Apart from blood cells, name **two** other substances found in plasma.

(i)

(ii)

b) Name any **two** functions performed by the blood in our bodies.

- (i)
(ii)

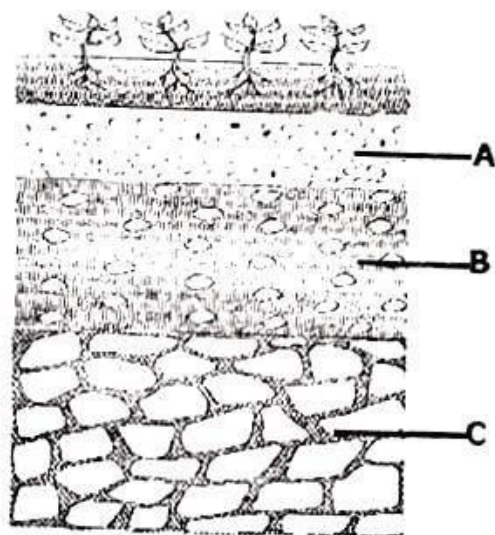
49a) Name the **two** conditions under which rusting of metals can take place.

- (i)
(ii)

b) List down **two** ways rusting affects metals.

- (i)
(ii)

50. The diagram below is of soil profile. Use it to answer the questions that follow.



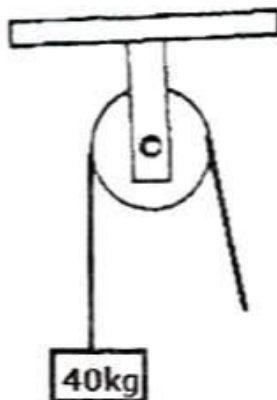
a) Mention any **two** things that make up layer **A**.

- (i)
(ii)

b) Name the layers marked **B** and **C**.

- B**
C

51. The diagram below is of a pulley system. Use it to answer questions that follow.



- a) What pulley system is shown on the diagram above?
.....
- b) Mark the direction of Effort on the diagram using an arrow and letter **E**.
- c) If the load being lifted is **40kg**, how much effort is needed to lift it on that pulley.
- d) What mechanical advantage does the above pulley have?

52a) What component of blood is useful for the clotting of blood?

.....

b) What genetic disease is caused as a result of inadequate presence of that component in blood?

.....

c) What food value is required in our diet so as to improve on blood clotting?

.....

d) Mention any **one** food source you can feed on so as to improve on your blood.

.....

53a) Name the **two** instruments used in the measuring the volume of irregular objects.

(i)

(ii)

b) What is the basic unit used in the measuring of volume?

.....

c) What liquid is usually used in the measurement of volume?

.....

54a) What type of change occurs when ice melts into water?

.....

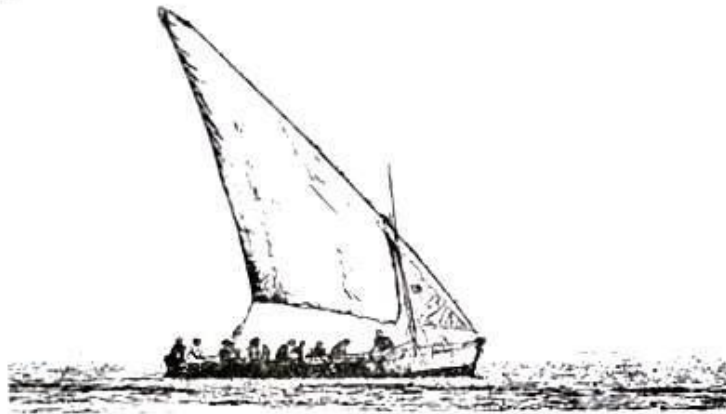
b) List down any **three** characteristics of the type of change ice goes through.

(i)

(ii)

(iii)

55. The diagram below shows a means of transport. Use it to answer questions that follow.



- a) What energy drives that machine?

.....

- b) Name **one** other machine that uses such energy to drive it.

.....

- c) Mention **two** other ways you can use that energy to do work.

(i)

(ii)

THE END