



UNEB BLUE PRINT 2023

INTEGRATED SCIENCE (SET SIX)

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		

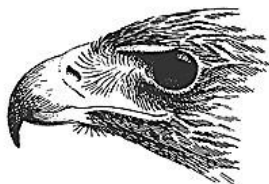
SECTION A

Questions **1 to 40** carry one mark each.

SECTION A (40 marks)

1. Name the component of soil that makes farmers' hoes to rust.
.....
2. Give any **one** example of information found on a child's health card.
.....
3. In which way is water important to the body other than digestion?
.....
4. Mention any **one** part of the body with suture joints.
.....
5. In which state of matter does sound travel fastest?
.....
6. Why is it important to remove all the clothes of a baby with a fever?
.....

..... **The diagram below shows a beak of a common bird. Use it to answer questions 7 and 8.**

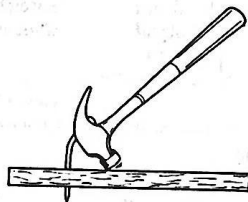


7. What does the bird whose beak is shown feed on?
.....
8. In which way is the beak above suited to its function?
.....
9. State the commonest way through which HIV spreads among youth.
.....
10. State any **one** activity you can do to promote the hygiene of your head.
.....
11. Why do bee keepers place their beehives in shades?
.....



12. What is the importance of respiration to a bull?

.....
The diagram below shows a simple machine. Use it to answer



questions 13 and 14

13. Which class of lever is shown above?

.....
14. Show with an arrow and letter **E** the position of effort.

15. In which way is artificial incubation better than natural incubation in chicken keeping?

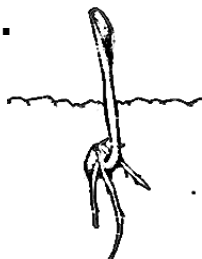
.....
16. State any **one** example of magnetic materials.

.....
17. Why should banana farmers put mulches in their plantations before the beginning of dry season?

.....
18. Mention any **one** example of sexual deviation practiced by males.

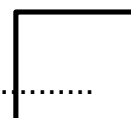
.....
19. Why do mothers wash their hands before preparing ORS?

.....
The diagram below shows a germinating seedling. Use it to answer questions 20 and 21.



20. Name the type of germination shown in the diagram above.

.....
21. Give a reason for your answer in number 20 above.



22. How does clearing of bushes near homes protect people against mosquito bites?

.....

23. State any **one** way of controlling cassava mosaic disease.

.....

24. Give any **one** example of a local breed of goats.

.....

25. How are mango trees important to monkeys in the environment?

.....

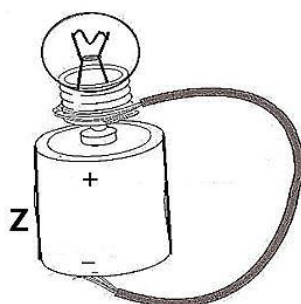
26. Why is it important

er milking?

.....

.....

The diagram below shows an



electric circuit. Use it to answer

27 and 28.

27. Show with an arrow on the wire the direction of flow of electricity.

28. Which form of energy is produced by part labeled **Z**?

.....

29. In which harmful way are bacteria similar to fungi?

.....

30. In which **one** way do non-living things benefit from other non-living things in the environment.

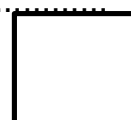
.....

31. Name the body organ that uses sunlight to protect us from rickets.

.....

32. State any **one** disadvantage of free-range grazing of cattle.

.....



33. Which component of blood stops bleeding from cuts?

.....
The diagram below shows a frying pan. Use it to answer questions 34 and 35.



34. Mention any **one** material that can be used to make part **G**.

.....
35. Give a reason why steel cannot be used to make part **G**.

.....
36. Why is iron nail unable to float when put on water?

.....
37. In which way are mammals similar to birds besides being vertebrates?

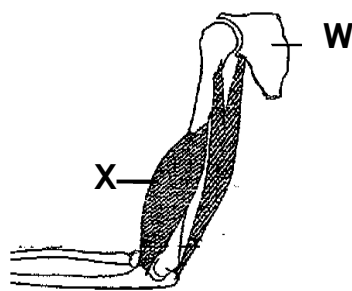
.....
38. Which type of energy is possessed by a rock rolling down a mountain?

.....
39. State any **one** human cause of environmental degradation.

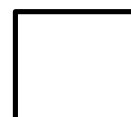
.....
40. Give any **one** reason why people keep chickens.

.....
SECTION B (60 marks)

41. The diagram below shows a human arm. Use it to answer the questions that follow.



(a) Name the bone labelled **W**.

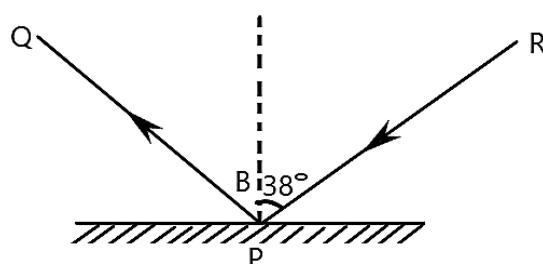


- (b) What happens to muscle **X** when the arm is:
- (i) straightened?
- (ii) bent?
- (c) How can you keep your skeletal system in good conditions?
-

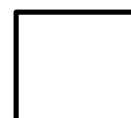
42. (a) When separating salt mixed with sand, state the reason for carrying out the following steps:
- (i) stirring the mixture in water
- (ii) filtering the mixture
- (iii) evaporating the filtrate
- (b) Which type of change occurs when salt dissolves in water?
-

43. (a) Give the meaning of the term root crops.
-
- (b) Give any **one** common example of root crops.
-
- (c) How do people propagate the root crop you named above?
-
- (d) Give any **one** way of looking after root crops in the garden.
-

44. **The diagram below shows a type of reflection. Use it to answer the questions that follow.**



- (a) Name the ray marked **PQ**?
-
- (b) What is the size of angle **B**?
-



(c) Give a reason for your answer in (b) above.

.....

(d) What kind of reflection is shown in the diagram?

.....

45. Match the items in **A** correctly with those of **B**.

A

Treads

Rollers

Bolts and nuts

Egg beaters

B

Screws

Increase friction on the tyres

Reduce friction

Changes the direction of effort applied

Wheels and axles

(i) Treads

(ii) Rollers

(iii) bolts and nuts

(iv) Egg beaters

46. (a) Mention any **one** source of heat energy at home.

.....

(b) What will happen if the following substances are heated for 20 minutes?

(i) Blue band

.....

(ii) $\frac{1}{4}$ litre of water

.....

(c) Why do people wear sweaters on rainy days?

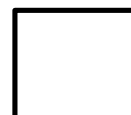
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47. (a) Mention any **one** cause of soil erosion.

.....

(b) Give a reason why crop farmers have to control soil erosion.

.....

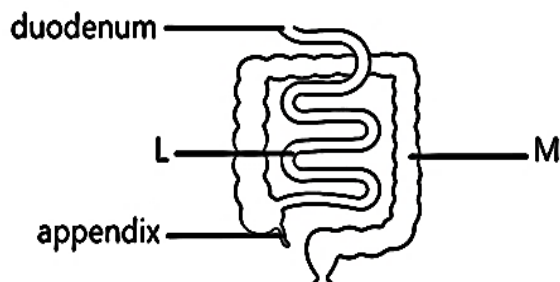


(c) State any **one** way of controlling soil erosion in the following:

(i) Hilly areas

(ii) Flat gentle areas

48. **The diagram below shows organs in the abdomen. Use it to answer the questions that follow**



(a) To which system of the human body do the organs above belong?

.....

(b) Name the part labelled **M**.

.....

(c) State the function of part marked with letter **L**.

.....

(d) Mention any **one** common disease of the system above.

.....

49. (a) Give any **one** example of fuels people get from plants.

.....

(b) Give any **one** advantage and one disadvantage of using fuels from plants:

(i) Advantage.

(ii) Disadvantage.

(c) How can plants be conserved in the environment?

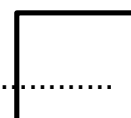
.....

50. (a) Mention any **one** lung disease associated with cigarette smoking.

.....

(b) State any **one** popular excuse given by smokers for smoking.

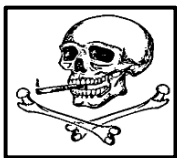
.....



(c) Why is it unwise for a pregnant lady to smoke?

.....

(d) What does a school child learn from the sign below?



.....

51. (a) Name the element of PHC concerned with:

(i) prevention of unwanted pregnancies.

.....

(ii) providing information on how to live a healthy life

.....

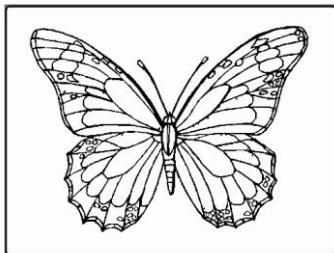
(b) Give any **one** example of a healthy lifestyle in a person.

.....

(c) State any **one** role of a health prefect during a health parade.

.....

52. **The diagram below shows a common insect. Use it to answer the questions that follow.**



(a) To which group of animals does the insect above belong?

.....

(b) Give a reason for your answer above.

.....

(c) Name the type of metamorphosis the insect shown above undergoes.

.....

(d) State a reason why crop farmers love the insect shown above.

.....



53. Use the illustration of food chain below to answer the questions that follow.

BACTERIA CHICKEN GRASSHOPPER GRASS

(a) Complete the illustration by putting arrows to show the flow of energy in the organisms above.

(b) Which of the organisms above is?

(i) the producer

(ii) the secondary consumer

(c) In which way do animals promote reproduction in plants?

.....

54. (a) Give any **one** sign of adolescence in the following people:

(i) Boys

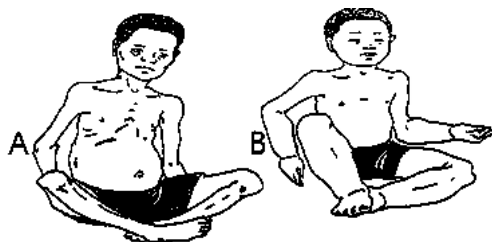
(ii) Girls

(b) Write any **two** ways adolescents can control bad odour on their bodies. (i)

..... (ii)

.....

55. Use the diagram below shows two children suffering from deficiency diseases. Use it to answer the questions that follow.



(a) Name the deficiency disease in child **B**.

.....

(b) Give **two** reasons why some families still have children with the deficiency diseases shown above.

(i)

(ii)

(c) How can mothers protect their babies against deficiency diseases?

.....

END

