

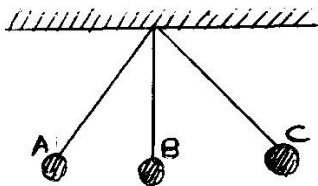
## UNEB BLUE PRINT ITEM (ONE)

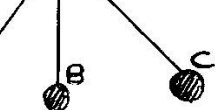
### INTEGRATED SCIENCE

## SECTION A (40MKS)

1. Give one example of a sea mammal.  
.....
2. State one biological method of controlling yellow fever.  
.....
3. Why do farmers keep brown egg hens?  
.....
4. Mention down the element of **PHC** promoted through washing hands using soapy water.

The diagram below shows a ball being kicked by a footballer. Use it to answer questions 5 and 6.



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5. What energy is possessed by the ball at **A** before being kicked?.....

6. State the energy change undergone by the ball between **A** and **B**.....

7. Give the name of a plant process controlled by transplanting seedlings in the evening  
.....

8. Write down one activity done at school using a single fixed pulley.  
.....

9. Name the part of the human ear that maintains correct body posture.  
.....

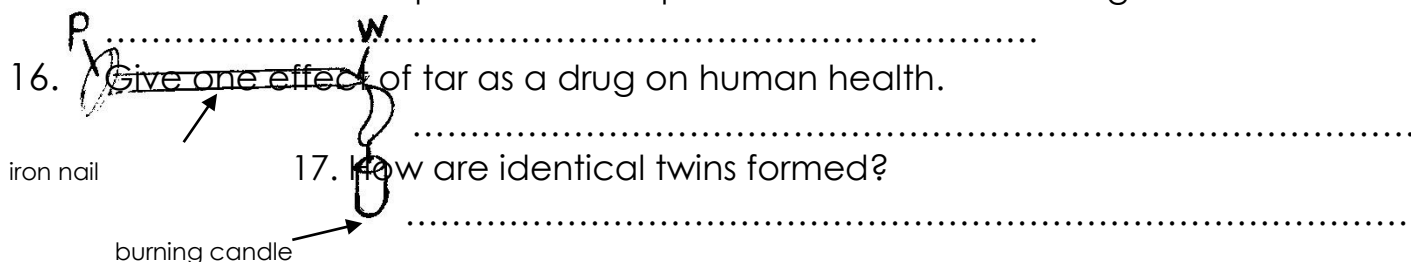
10. Why do farmers prefer keeping goats to other animals?  
.....

11. Give one characteristic of red blood cells.  
.....

12. How does salting control the effect of bacteria on fresh meat?  
.....
13. Give one disadvantage of overcrowding in a living house.  
.....

14. State one reason why it is advisable to have a young farmer's club in a school.  
.....

15. How does heat at point **W** reach point **P** as shown in the diagram below?



18. Give a reason why insulators are used in transmission of electricity.  
.....

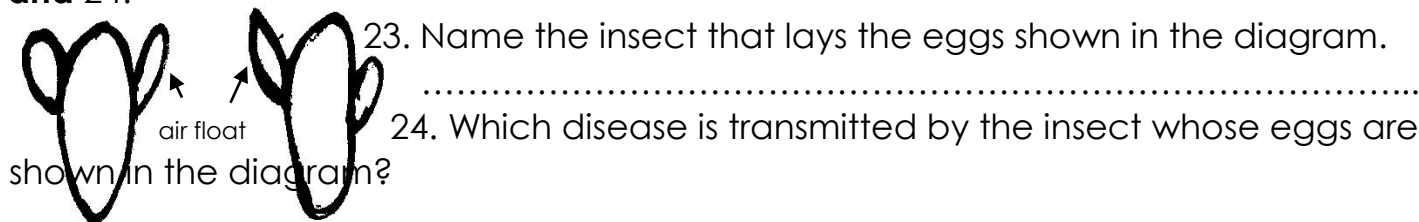
19. Name the force of attraction between solid molecules.  
.....

20. How does the use of fertilizers improve on soil fertility?  
.....

21. Mention down one activity done by cattle farmers to ensure clean milk production.  
.....

22. Give one way hydrochloric acid simplifies the work of digestion in the stomach  
.....

**Below are eggs laid by a certain insect. Study them carefully to answer questions 23 and 24.**



25. How can one prevent his/her teeth from decay?  
.....

26. How does a clinical thermometer work?  
.....

27. How does a snake protect itself from enemies?  
.....

28. Give one major cause of poisoning among the children.
29. State one condition that may favour cross pollination in flowering plants.
30. Mention down one way brick making can degrade the environment.
31. State one factor considered when soaking clothes.
32. How does seductive adverts promote alcoholism among adolescents?
33. Which instrument is used to detect the presence of water in milk?
34. State one activity done by members of young Farmer's club at school.
35. Why do people prefer clay made charcoal stoves to metallic ones?

**Below is an equipment used in bee keeping. Use it to answer questions 36 and 37.**



36. Name the equipment shown in the diagram.
37. What activity in bee keeping involves the use of the drawn equipment?
38. How does human skin help to regulate the amount of water in the body?
39. State one characteristic of social insects?
40. Why do farmers carryout tooth clipping in piggery?

### SECTION B (60 Marks)

41. a). What type of change is fermentation?
- (b). The equation below summarizes the process of alcohol fermentation. Study it carefully and answer the questions that follow.
- fruit juice alcohol + carbon dioxide + heat energy (i).**
- What role is played by yeast in the process above?
- (ii). How do plants benefit from the process above?

.....  
(iii). Apart from alcohol fermentation, mention down another process that uses yeast  
.....

42. **Below are classes of musical instruments. Study them carefully to answer questions that follow.**



a). Name the instruments labelled **W** and **X**.

**W**.....**X**.....

b).How do the above instruments produce sound?

.....  
c). Apart from the two instruments shown above, name one other instrument that belongs to the same family as those in the diagram.  
.....

43. a). Give the importance of carrying out the following practices in cattle keeping.

(i) dehorning.....

.....  
(ii) castration.....

b). State two ways of controlling tick bone diseases in cattle.

(i).....(ii).....

44. (a). Write any two causes of leaching.

(i).....(ii).....

(b). Give any two methods used to conserve soil.

(i).....(ii).....

45. **The table below shows parts of a flower and their functions but in wrong order.**

**Match the parts of a flower in the table below with their functions.**

Parts of a flower	Functions of the parts
(i) sepal	Receives pollen grains.
(ii) anther heads	Attracts insects for pollination.
(iii) stigma	Protects the flower during bud stage.
(iv) petal	Produces pollen grains.

(i) sepal.....

(ii) anther heads.....

(iii).....

stigma.....  
 (iv) petal.....

46. a). Name the group of crops to which each of the following crops belong.  
 (i) cowpeas.....(ii) maize crops.....  
 b). Give any two ways in which weeding is done in the garden.  
 (i).....  
 (ii).....

47. a). In which way do severe burns and scalds lead to dehydration?  
 .....  
 b.) State the importance of including sugar when making Oral Rehydration Solution (ORS) .  
 .....  
 c). Apart from giving Oral Rehydration Solution, give any other two ways of replacing the lost fluids in a dehydrated patient.  
 (i).....  
 (ii).....

48. **Below is a simple machine. Study it carefully to answer questions that follow.**

- B (a). What letter represents effort?  
 .....  
 (b). To which class of levers does the machine in the A diagram belong?  
 C ..... (c) How can one improve the machine in above in order to use less force while using it?  
 .....  
 d). Give any other machine in the same class apart from the shown above?  
 .....  
 .




49. **Below is a table showing classes of invertebrates. Study it carefully to answer questions that follow.**

P	Q	R	S
jellyfish	star fish	prawn	ascaris
hydra	sea urchins	lobstar	hookworms

- a). Which list has endoparasites?  
 .....  
 b). State one structural difference between animals in list **R** and **S**.  
 .....  
 c). Name the class of invertebrates to which animals in list **P** and **Q** belong.

(i) P.....(ii) Q.....

50. The diagram below shows one of the methods of artificial vegetative propagation. Study it carefully to answer questions that follow.



(a). Name the part labelled with letter **b**.  
.....

(b). Give any one advantage of artificial vegetative propagation.  
.....

(c). Apart from the above method of the artificial vegetative propagation, name any other two methods of artificial vegetative propagation.

(i).....(ii).....

51. a). Give the importance of each of the elements of a clean house.

(i) latrine.....

(ii) a rack.....

b). Mention any other two sanitary facilities that a clean home should have.

(i).....(ii).....

52. (a). In which way is breathing different from respiration?

.....  
.....

b). What happens to the following parts during breathing out?

(i) rib cage.....

(ii) diaphragm.....

c). State any one way in which air sacs are adapted to their function.

.....  
.....

53. a). Which germ causes Newcastle disease?

.....

(b) Give any two signs of Newcastle disease.

(i).....

(ii).....

(c) State any one way of controlling Newcastle disease in poultry.

.....

54. a). State any one way phosphates can lead to development of crop growing in an area.

.....

b). Apart from phosphates, name any one other example of a non-renewable resource in the environment.

.....

c). Give any two ways of conserving non-renewable resources in the environment.

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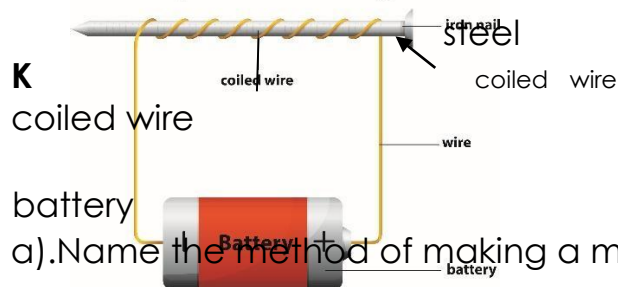
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- (i).....
- (ii).....

55. **Below is a method of magnet. Study it carefully to answer questions that follow.**

### Simple Electromagnet



a). Name the method of making a magnet shown above.

b). Determine the polarity at **K**.

c). Name one device that uses an electro magnet.

d). Suggest what must be done to increase the strength of the magnet made by the method above.