

# SIR APOLLO KAGGWA BOARDING PRIMARY SCHOOL-OLD KAMPALA

## PRIMARY SEVEN HOLIDAY PACKAGE SET TWO TERM ONE, 2022 INTEGRATED SCIENCE

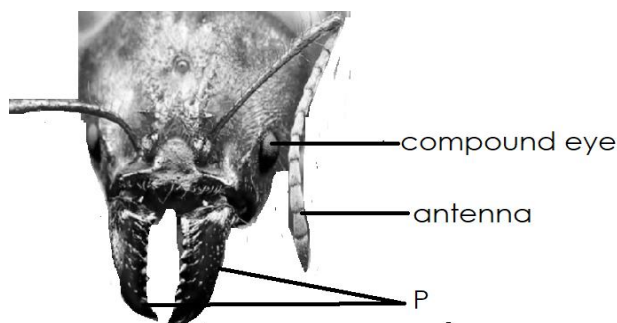
***Time allowed: 2 hours 15 minutes***

**Candidate's Name:** \_\_\_\_\_ **Stream** \_\_\_\_\_

### **SECTION A: 50 MARKS**

1. How are red blood cells important during respiration in human beings?  
.....
2. What name is given to the small particle in a nucleus of an atom that has no electrical charge?  
.....
3. Why is a person suffering from gonorrhea advised to go with all his or her sexual partners for treatment?  
.....
4. What happens to volume of water when heat is reduced from it up to below 0<sup>0</sup>c?  
.....
5. Mention any one example of artificial fibres in our environment  
.....
6. Why is aluminum preferred to other metals in making of air craft bodies?  
.....
7. How are reptiles able to cope with changes in the environment?  
.....

**The diagram below shows the mouth parts of an insect. Use it to answer questions 31 and 32.**



8. Name the mouth part shown by P in the diagram  
.....

9. Name one insect with such a mouth part.  
.....
10. Give any one way in which human beings can make use of biogas.  
.....
11. State the difference between volume and weight of an object.  
.....
12. State one danger caused by presence of many industries in an area.  
.....
13. Renewable resources are components of the environment that can be replaced by natural process when used, how are plants and animals replaced in the environment?  
.....
14. How is the function of foliage leaves different from that of fleshy leaves in an onion?  
.....
15. Why is wood intended for charcoal production burnt under limited supply of oxygen?  
.....
16. Musoke picked a bottle of water from the refrigerator. After some time he saw droplets of water on the surface of the bottle. Explain what had happened.  
.....
17. Name the force that wears and tears the shoe soles and car tyres  
.....
18. Mention one factor that affects the efficiency of a simple wet cell.  
.....
19. **Give one example of a bird with a foot below**



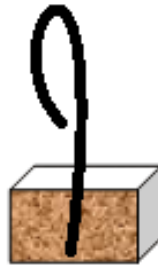
20. How can the government prevent the extinction of endangered species of animals?  
.....
21. How is a swim bladder important to a fish ?  
.....

22. State one similarity between a tick and a housefly.  
.....
23. Give one method that can be applied by a farmer to get rid of external parasites in livestock?  
.....
24. Give one reason why people plant trees around their houses.  
.....
25. Give a reason why vitamins are not chemically digested in the alimentary canal.  
.....
26. Why are adolescent girls advised to always feed on meals containing iron?  
.....  
.....
27. Name the equipment used to detect the presence of water in milk  
.....
28. What is the importance of a damp-proof course on a permanent house?  
.....
29. In the space provided below, draw a secateur.
30. Name the type of soil which has the highest water retention capacity  
.....
31. A farmer was found applying urea on plants, what was the farmer's intention?  
.....
32. What happens when blood flows to the lungs?  
.....
33. State the danger human beings are saved of by having melanin in their bodies.  
.....
34. How does wetland drainage affect the eco system?  
.....
35. What scientific term refers to the wave-like movement of materials through tubular organs of the body?

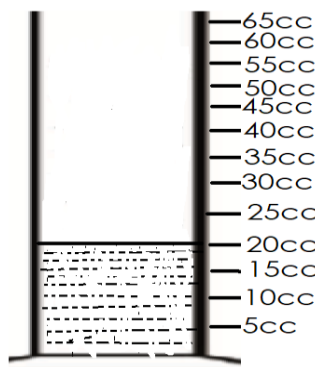
- .....
36. State the importance of suckers and hooks on a tape worm.
- .....
37. How does deficiency of oxygen supply to the brain affect a person?
- .....
38. What immediate help can be given to a person with such a problem in (37) above?
- .....
39. What do we call the removal of unwanted parts from a plant?
- .....
40. Mention any one narcotic drug taken by sniffing.
- .....

### SECTION B

41. The mass of the block shown below 120g and its density 8g/cc.



- a) Calculate the volume of the block. **(2 marks)**
- b) If the block was later immersed into the measuring below. Complete the diagram by drawing the block in the measuring cylinder below. **(2marks)**



- 42 (a) Define the term “Apiary”
- .....

b) Give one way of extracting honey from honey combs.

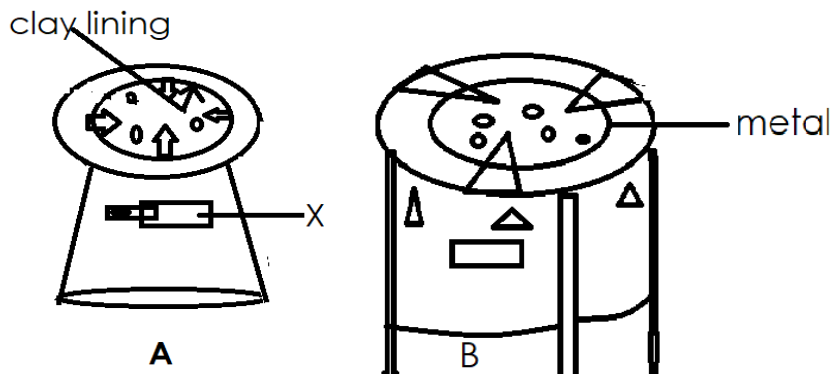
.....

c) Give one cause of each of the following in bee keeping.

(i) Swarming.....

(ii) Absconding.....

**43 . The diagram below shows two charcoal stoves A and B.**



a) Which one of the two stoves uses less charcoal?

.....

b) Give the reason to support your answer in (a) above.

.....

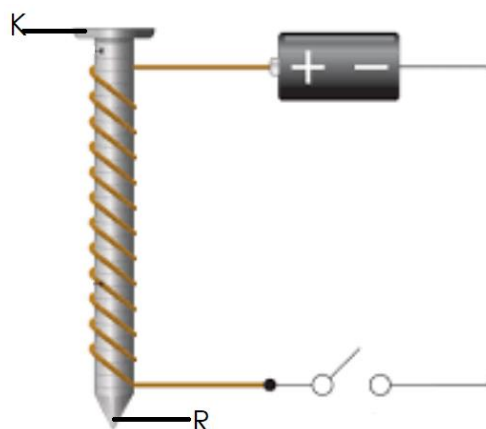
c) Why does a stove fail to work well when part X is closed?

.....

d) Give one reason why you would prefer using a solar cooker to a charcoal stove.

.....

**44. The diagram below shows a method of magnetization.**



a) Name the method of magnetization shown above.

.....

b) Name pole marked K.

.....

- c) Give one ways of increasing the strength of magnets made using the above method.
- .....

(d) **Using arrows show the direction of the flow of current**

**45.a)** How is a predator different from a scavenger?

.....

b) Name one invertebrate that feeds parasitically.

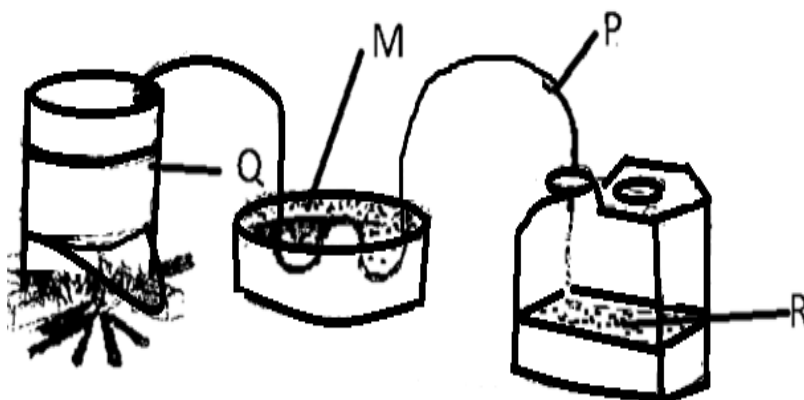
.....

c) Give one example of each of the following

(i) Scavenger mammal.....

(ii) Scavenger bird.....

**46. The diagram below shows one of the methods of preparing alcohol. Study it and answer questions 3.**



a) Name the method of production of alcohol shown above.

.....

b) Identify the physical process taking place in **Q**.

.....

c) Why is the part of **P** that is in water coiled?

.....

c) State one danger of alcohol to the community?

.....

**47. a)** Give one importance of saliva in the process of digestion.

.....

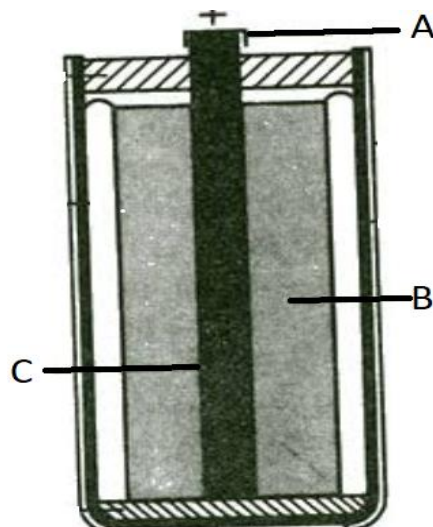
b) Where in the digestive system does absorption of water occur?

.....

c) Mention the condition under which pepsin works.

.....

48. Study the electric cell below and answer questions that follow.



a) Name part labeled **B**.

.....

b) **Show the direction of flow of current on the above diagram?**

(c) Name two components of part **B**

(i).....

(ii).....

49. (a) Weathering is the chemical or mechanical breakdown of rocks. Give two factors that cause weathering to take place.

(i).....

(ii).....

b) Name the type of soil which has the lowest capillarity.

.....

.....

c) Give any one importance of soil in the environment.

.....

50. What happens to each of the following when a person breathes in?

(a) Intercostal muscles.....

(b) Diaphragm.....

(c) Rib cage.....

(d) How is the pleura membrane useful in the body?

.....

51. Briefly explain each of the following terms as used in farming.

(a) Row planting

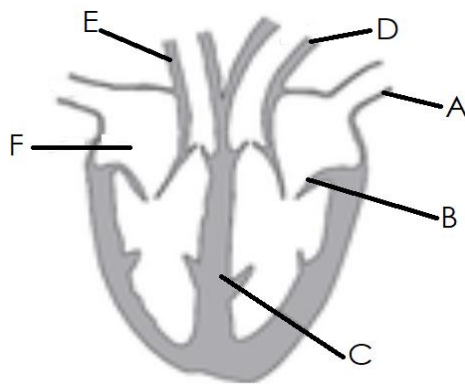
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(b) Bush following

.....  
(c) Pruning

.....  
(d) Thinning

.....  
**52. The diagram below shows an oxygen of the circulation system. Use it to answer question 42**



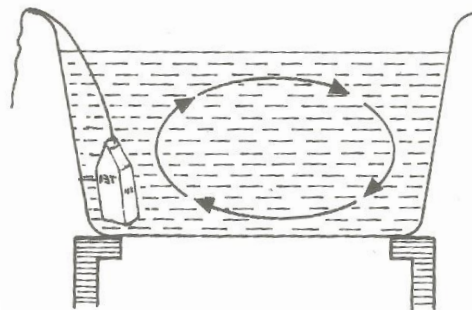
a) Name part labeled B

.....  
b) State the difference in blood transported by vessel A and that transported by blood vessel E.

.....  
(C) Name the membrane in which the above organ is enclosed

.....  
d) Give one way of maintaining the proper functioning of the above organ

.....  
**53. The diagram below show the process in which the cold molecules displace the warm molecules.**





a) What do the arrows show?

.....  
.....

b) How does water in the sauce pan become heated?

.....  
.....

c) Name two other methods of heat transfer apart from the one shown above

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

**54** (a) Explain what is meant by term “immunity”

.....  
.....

(b) Apart from breast feeding, mention any other way a baby can acquire natural immunity

.....  
.....

(c) Give one kind of post-natal care given to a mother.

.....  
.....

(d) Mention one initiative put up by the ministry of health to reduce infant mortality rate.

.....  
.....

**55. Match the crops in List A to their examples in list B**

**List A**

- (i) Perennials
- (ii) Biennials
- (iii) Annuals
- (iv) Cereals

**List B**

- cocoa
- cowpeas
- wheat
- onions

i) Perennials.....

(ii) Biennials.....

(iii) Annuals.....

iv) Cereals.....

**END**