

THE PEARL 2024

TEL:0757999162 / 0782171915

NAME:.....

SCHOOL:.....

P.7 CANDIDATES 2024

INTEGRATED SCIENCE

SECTION A

1. Identify any one activity that a candidate can do to provide personal hygiene.

.....

2. Mention one use of wind to people.

.....

3. State the importance of immunization to children below 5 years of age.

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4. Identify any one example of a non-communicable disease.

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5. How is chlorophyll useful during photosynthesis?

.....

Use the diagram of a charcoal stove below to answer the questions that follow.



6. State the function of the hole shown on the diagram above.

.....

7. How does the use of electricity for cooking protect forests?

.....

8. Name the part of an ostrich that works like the external gills of a tadpole.

.....

9. State the danger of poor disposal of faeces in a home or school.

.....

10. Which gas is released during respiration in a living organism?

.....

11. Why is it dangerous to leave farm tools in moist places?

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12. In the space provided below, draw a diagram to show the structure of a white blood cell.

13. Identify the body organ that is greatly affected by cigarette smoking.

.....

14. How does debeaking control cannibalism in poultry?

.....

15. In which way is deforestation dangerous to our environment?

.....

16. Identify one way of promoting good health in cattle.

.....

Use the list below to answer questions 17, 18, and 19.

Evaporation, fermentation, growth, construction of roads, freezing, rusting, sweating, bush burning.

17. Which process from the list above turns fresh milk into yogurt?

.....
18. Identify one process from the list above that takes part in water cycle.

.....
19. Give one disadvantage of bush burning.

.....
20. Musoke's counter book has a mass of 900g. Find the density of Musoke's counter book if its volume is 450cc.

.....
21. Why do some plants shed off their leaves in the dry season?

.....
22. Identify the type of fertilization that occurs in amphibians.

.....
23. Name the organ in your body that is entirely made of the cardiac muscle.

.....
24. Identify any one organism that reproduces by binary fission.

.....
25. Why does a cork float when placed in water?

.....
The diagram below shows a head of a mammal. Use it to answer the questions that follow.



26. Name the type of teeth shown by letter Y.

.....
27. How are such teeth useful to a carnivore like a cheetah?

.....
28. Explain why it is important for everyone who goes to a latrine to wear shoes.

.....
29. What are conductors of electricity?

.....
30. Mention any one example of a stem tuber.

.....
31. State the importance of soil to a rodent.

.....
32. Give one way of making water safe for drinking.

.....
33. Identify any one advantage of having a VIP latrine over an ordinary pit latrine.

.....
34. Mention any one crop plant that develops prop roots.

.....
35. Why are villi very important in the ileum?

.....
36. Name one animal with hydrostatic skeleton apart from earthworms.

.....
37. Why does sand soil dry very fast when water is poured on it?

.....
Use the diagram below to answer questions 38-40.



38. How is the function of blood vessel Q different from that of vessel P?

.....
39. Name the blood vessel shown by letter R.

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40. State the role of valves in blood vessel P.

SECTION B

41.a) What is immunity?

.....

b) Explain how a person gets:-

i) Natural immunity

.....

ii) Artificial immunity.

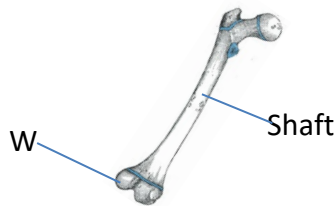
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c) Name the vaccine that is given to babies against tuberculosis.

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42.a) Mention two functions of the musculoskeletal system.

The diagram below is of a long bone. Use it to answer questions b and c.



b) If the bone above is femur. Name the movable joint formed by part W.

.....

c) Which mineral salt is needed for the formation of hard and strong bones?

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43.a) Mention any one component of soil.

.....

b) Why is sand soil not good for growing crops?

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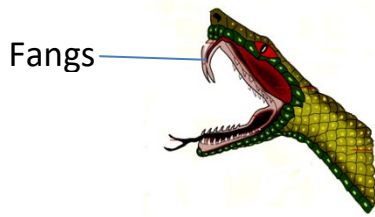
c) Identify two ways in which people make use of clay soil.

.....

44.a) What is an accident?

.....

Use the diagram below to answer question (b).



b) How are the fangs useful to a puff adder?

.....

c) State two steps you would take to assist a person who got bitten by a venomous snake.

.....

45.a) Write two examples of commonly abused drugs in your community.

.....

b) Identify two dangers of drug abuse to a person.

i)

ii)

46. Match the vector in A with the disease which they transmit the germs to people in B.

| A | B |
|--------------------|-----------------|
| Water snail | Schistosomiasis |
| Anopheles mosquito | Elephantiasis |
| Black fly | Onchocerciasis |
| Tsetse fly | Malaria |

Water snail

Anopheles mosquito

Black fly

Tsetse fly

47.a) Write HIV in full

.....

b) How does HIV cause AIDS?

.....

c) Write two ways of controlling the spread of HIV/AIDS.

.....

48.a) Define the following terms:

i) Pitch

ii) Volume

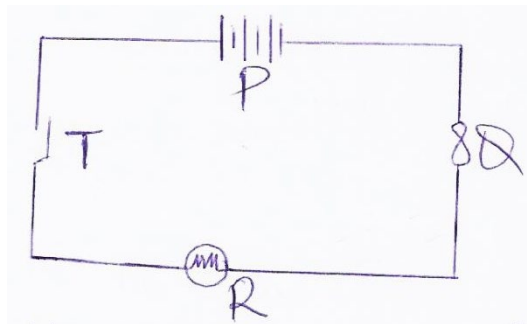
b) How does sound travel from a teacher addressing an assembly to reach children in the audience?

.....

c) Mention one device for digital storage of sound.

.....

49. Use the diagram of electric circuit below to answer the questions that follow;



a) Name the parts marked P and Q.

P.....Q.....

b) How is part T useful in the circuit?

.....

c) Which form of energy is converted to heat and light energy by part R?

.....

50.a) Name the plant from which cigarette is made;-

.....

b) Identify any two dangerous substances / chemicals in cigarette smoke.

.....

c) How is cigarette smoking dangerous to a pregnant woman?

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51. The diagrams below show blood cells in human beings.



a) Name the blood cells A and C.

A

B

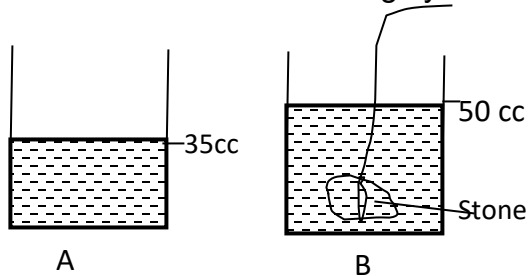
b) State the function of blood cell marked B in your body.

.....

c) Name one disease that affects blood cell A.

.....

52. Mary put a stone into a measuring cylinder as shown in the diagram below.



a) Calculate the volume of the stone in diagram B.

.....

b) Name the method of finding volume shown above.

.....

c) Why does a stone sink when dropped in water?

.....

d) Mention one substance that can float on water.

.....

53. a) Give one way in which people use the sun as an energy resource.

.....

b) Identify one example of:-

i) Renewable resource

.....
ii) Fossil fuel

.....
c) Give one benefit of using animal transport to our environment.

.....
54. Give the main reason for rearing the following livestock:-

i) Dairy cows

.....
ii) Layers

.....
iii) Beef cattle

.....
b) State the use of strip cup to a dairy farmer.

.....
55. Use the list below to answer questions a-c.

Snail, ostrich, monkey, tapeworm, grass.

a) Which two organisms from the list above are vertebrates?

.....
b) How is grass different from all the others in terms of the way they get food?

.....
c) Identify one endoparasite from the list above.