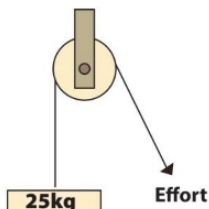


1. Name the cattle disease that makes the udder hard and painful.
2. Give any one vector controlled when we wash our clothes.
3. What type of germination do most legumes undergo?
4. Give one use of trees around our school compound.
5. Calculate the mechanical advantage of the machine below.



6. Name an example of a seed bearing nonflowering plant apart from cedar.
7. Give the importance of webbed feet to a duck during swimming.
8. What is obtained by mixing a solvent with a solute?
9. Name the organ in man which changes harmful chemicals into harmless ones.
10. What condition leads to anaemia in humans?
11. What is common about the blood carried by the vena cava and the pulmonary artery?
12. How are seeds of mangoes dispersed?



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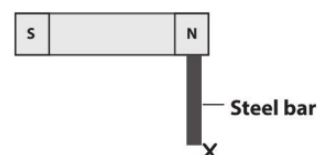
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INTEGRATED SCIENCE

SECTION A

13. How do moss plants differ from yeast?
14. What is the function of hydrochloric acid in food digestion?
15. State the use of a fuse in an electric circuit.
16. How is heat transfer by radiation different from heat transfer by conduction?
17. Where in the body of a mammal does the union of gametes to form a zygote take place?
18. Why is the washing of fruits important in food hygiene?
19. State one effect of accidents to the community.
20. How does deforestation lead to soil erosion?
21. Give one effect of antisocial behaviour to an individual.
22. Why is a vulture an important bird in the environment?
23. Apart from lungs, name one other organ of the excretory system in the human body.
24. Give one condition necessary for photosynthesis.
25. State the effect of diseases to a poultry farmer.
26. Why is it good for school children to abstain from sex?
27. How does washing of hands control faecal diseases?
28. Give one condition that causes fainting.
29. Give one reason why sugar is used in preparing oral rehydration solution.
30. Why is immunisation in Uganda given to children with no cost?
31. Why is water not a good material in extinguishing petrol fires?
32. State one way of avoiding hookworm infestation.
33. Give any one natural source of heat on earth.

34. State One primary sex characteristic that takes place in male and female adolescents. Use the diagram below answer questions 35 and 36.

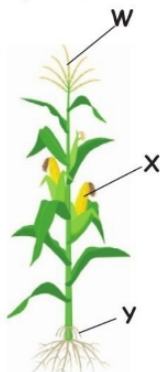


35. What method of magnetisation is illustrated above?
36. Name pole X after magnetisation?
37. Why is a tadpole similar to a fish in terms of breathing?
38. How are molar teeth adapted to their function?
39. What causes a shadow?
40. Name one pest that destroys maize in stores.

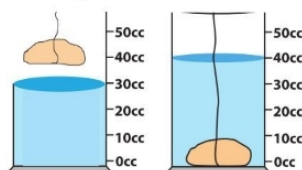
SECTION B

41. The diagram below shows a plant. Study and use it to answer the questions that follow.

- a) What type of root system does the plant have?
- b) State the importance of part labelled X to the plant.
- c) To which group of flowering plants does the above plant belong?
- d) How does that plant benefit from structures marked Y?



- a) for growth and repair of worn out tissues of the body?
 - c) State two effects of malnutrition to babies.
- 45 The diagram below shows a stone being lowered in a cylinder containing water.

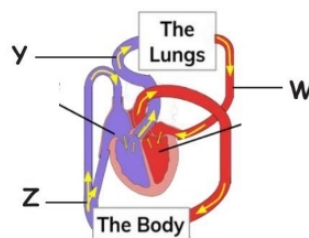


- (a) If the mass of the stone is 90g, calculate its density.
 - (c) Why does the stone sink in water?
- 46(a) What is an alloy?
(b) What alloy is obtained by mixing copper and tin?
(c) Name the liquid metal used in the thermometer.
(d) State one effect of heat on metal.
47. a) To which body system does the skin belong?
b) Give the function of the sweat gland of the skin.
c) Give two ways of keeping the skin in a healthy and good condition.

- 48(a) Mention two by-products of respiration.

- (b) Give one danger of having too much carbon dioxide in the body.
 - c) Name the plant process that uses the by-products of respiration.
- 49a) What is the difference between vertebrates and invertebrates?
b) To which group of invertebrates do myriapods belong?
c) How does a snail protect itself from enemies?
d) What type of skeleton do insects have?

50. The diagram below is of a human heart. Use it to answer the questions that follow.



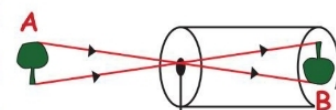
- (a) Name part marked Z.
- (b) What is the function of part marked W?
- (c) Why does blood go to the lungs?
- (d) Which type of blood is transported through blood vessel marked W?

- 51 a) State two causes of environmental degradation.
b) Give two ways of protecting the environment.

52. Complete the table below correctly.

Disease	Cause	Mode of transmission
Cholera	Shaking hands
COVID-19	Virus
.....	Filarial worm	Bites of culex mosquito
Rabies	Virus

53. Use the diagram below to answer questions that follow.



- a) Name parts marked A and B.
 - b) State two similarities of the image formed by the above instrument and that of the human eye.
54. (a) How are the following machines applied in our daily life?
(i) Wheelbarrow. (iii) Windlass.
(ii) Knife
(b) Give the force that reduces the efficiency of machines.