


## SEC. A

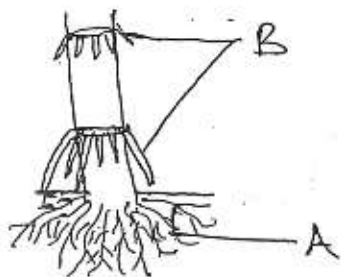
1. Name ~~one~~ <sup>living</sup> natural source of light  
- glow worms - fireflies
2. Give the main product got from merino sheep  
- wool
3. Which sexually transmitted disease causes blindness in newly born babies  
- gonorrhoea
4. Why is the trachea able to withstand the pressure as air passes through it?  
made up of rings of cartilage
5. Give a reason why water drains through sand soil easily?  
- Sand soil has large/big air spaces
6. Name the germ that causes trachoma. IX  
- chlamydia trachomatis
- ..... 7. Which intestinal worm <sup>can</sup> enter our bodies through eating poorly cooked beef or pork?  
- tape worm
8. Why are people with ordinary latrines encouraged to smoke their latrines  
- Kill germs - Kill houseflies
9. State the use of the electric symbol shown below  



Measure electric current
10. Which viral disease in cattle can be controlled by imposing quarantine? - Foot and mouth disease

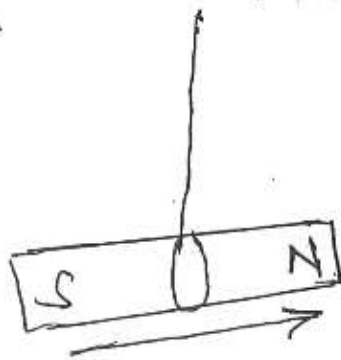
11 JUN 2024

11. Which class food is first digested in the duodenum?  
- Fats
12. Why is the rain gauge put 15 cm above the ground level?  
- prevent flowing water from entering into it.
13. How is litter useful in deep litter system  
- Keep floor warm and dry - prevents some eggs from breaking
14. Name the fungi that makes bread go bad.  
- Yeast
15. Which scale gives the normal temperature of a person as  $98.6^{\circ}$ ?  
Fahrenheit scale
16. Use the diagram below to answer questions 16 and 17.



16. Name part B - prop roots
17. Give one example of plants with such roots  
- (Any cereal) - Sugar Cane
18. Which group of cold blooded vertebrates does a snake belong?  
Reptiles

19. Which element of PHC enables mothers to get antenatal care?  
- Mother and child health care
20. Which force holds water droplets on glass?  
- Adhesion
21. How can soil benefit from plants?  
- Legumes add nitrogen into the soil - plant water rot and ~~protect soil~~ <sup>form humus</sup>
22. State one way heat transfer by radiation is ~~an~~ important to people.  
- dry things (sun drying) - receive warmth
23. Identify any one characteristic of flowers pollinated by animals.  
large in size, - sticky pollen grains - brightly coloured.
24. In which way is a burn similar to a scald  
- both injure skin - caused by heat
25. Why is a cockroach regarded as an arthropod?  
- jointed legs - segmented body
26. In the space below draw a diagram showing property of a magnet that enables pilot to tell direction



27. How is rotational grazing useful to the soil?  
- Controls soil erosion/over grazing  
- Manure is evenly distributed

28. What is the immediate result of fertilisation in both plants and animals?

Zygote

29. Name the garden tool shown below



Forked hoe

30. Name the sense organ for feeling

- Skin

31. How is decomposition of dead matter useful in the environment? - Makes soil fertile

- Helps in the formation of soil - reduces dead bodies

32. Mention the importance of the silvered double walls of the thermos flask.

- reduce heat loss by radiation

33. How does debarking control egg eating among layers? makes the beaks blunt

34. Which type of root system is a characteristic of dicotyledonous plants?

- tap root system

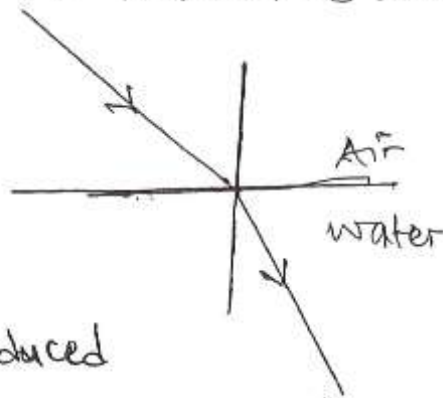
35. Give one way in which dangers of strong wind

can be managed at home or school

= planting trees



36. Why does <sup>the</sup> light ray moving from air to water bend towards the normal as shown in the diagram below



- Its speed has reduced

37. Mention the main product got from Merino sheep ancona breed of chicken

- eggs

38. State one effect of drug abuse to young people  
brain damage, Self neglect, school drop out, delinquency.

39. Name the enzyme that coagulates milk in the stomach.

- Rennin

40. Why do people tend to hear more clearly at night than during day time?

- Sound waves at night move at low level

### SECTION B

- 41 a) Mention any two ways our bodies gain immunity

(i) - Eating balanced diet, - After recovering from disease

(ii) Immunisation - from the mother's womb

- b) Name the germ that <sup>can</sup> attack and destroy the

process has a simple formula: do your best, and people will like it.

water



- immune system in the body - HIV germ
- c) Give the best way an adult person can improve on the body immunity.
- Carry out physical exercises - feeding on balanced diet.
42. a) Give one example of each of the types of mammals
- i) Pouched mammals Kooka Kangaro wallabies wombat
  - ii) Primates - Man - monkey - gorilla - bush baby
- b) How are marine mammals able to stay in cold conditions under water? - Have a layer of fats (blubber)
- c) What characteristic makes mammals different from all other vertebrates? - Have hair or fur - mammary glands
- produce living young ones
43. a) Mention two non living renewable resources in the environment
- (i) Air
  - (ii) Water
- b) Write down one way of conserving plants in the environment - using alternative sources of energy
- planting more trees - creating awareness
- c) Why should resources be conserved in ~~the~~ our environment?
- For future use
  - prevent extinction

44. Use the table below to answer questions about it

A	B	C
beans	Cypress	Mosses
Peas	Cedar	ferns
Maize	fir	liverworts

You may delay, but time will not.

a) What general name is given to plants in B and C

Non flowering plants

b) How are plants in A similar to plants in B in terms of reproduction?

They reproduce by means of seeds

c) In which way are plants in A different from plants in B and C?

Plants in A are flowering plants while B and C are non flowering.

d) Give one use of plants in B to people

- Source of soft wood

- Source of income

45 a) Name the type of simple machines people use for splitting, cutting or piercing

- Wedge

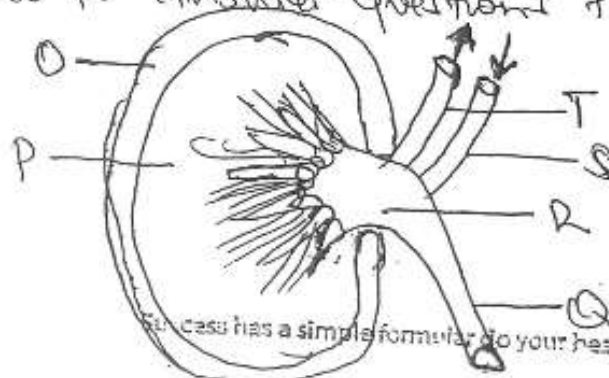
b) Give two examples of the type of machines you have named in (a) above

(i) axe, slasher, spear (ii) panga, knife, needle

c) Which force enables these machines to cut or split objects easily?

- friction

46 Below is the structure of the human kidney. Use it to answer questions that follow



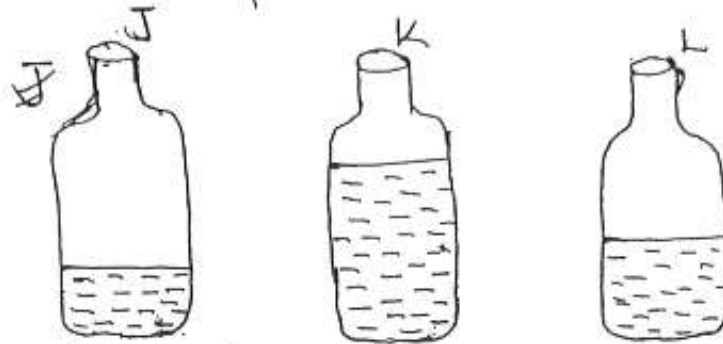
Each case has a simple formula: do your best, and people will like it.

- d) Name the parts marked P and R  
 i) P - Medulla (ii) R - Pelvis
- c) b) Which process occurs in part O  
 filtration
- c) Give the difference between ~~plac~~ blood carried by  
 blood vessel S and T  
 S carries oxygenated blood while T carries deoxygenated
- 47) a) Write down any two causes of soil exhaustion  
 i) over cultivation Teaching bush burning  
 ii) soil erosion over application of artificial fertilizers
- c) b) Besides manuring, how else can a farmer ~~prevent~~  
~~soil exhaustion~~ improve on soil fertility  
 - mulching - crop rotation.
- 4) c) Name one example of soil pollutant.  
 polythene plastic
- 48) a) Name the biological changes that:  
 i) help living things to multiply - reproduction  
 ii) help living things to increase in size - growth
- b) Give two characteristics of physical changes  
 (i) reversible  
 (ii) No new substance is formed
- 49) a) In which way are the following elements of  
 first aid not important,  
 i) Splints Keep broken bones in position  
 ii) Arm sling Support the injured arm
- b) Give two reasons why we give first aid to casualties.  
 i) Save life, reduce pain, promote quick recovery  
 ii) prevent further injuries  
 You may delay, but time will not.



Three bottles of the same size ~~which~~ have water in them at different levels as shown

50 Study the diagram below and use it to answer questions that follow



- d) Which bottle will produce the highest pitch - bottle K
  - e) Give a reason for your answer in (a) above  
Has the smallest vibrating space
  - f) What will happen to the sound of bottle L if the water in it is replaced with milk?  
Pitch of sound does not change
  - g) State one factor that affects the pitch of sound  
tension, size of the object, length of the string, frequency
- 51 a) State two adaptations of ileum to food absorption
- i) long
  - ii) presence of villi
- b) Which process enables the digested food to be absorbed into the blood stream?  
diffusion
- c) Why is the absorbed food taken to the liver before it is circulated to all body parts?

52 Match the vectors below and the germs they spread.

### Vectors

Housefly

Snail

Tsetse fly

Black fly

### Germs

Trypanasoma

Ochocerca vulvulus

Vibro cholera

Schistomas

- |                 |                      |
|-----------------|----------------------|
| i) House fly    | - Vibrio cholera     |
| ii) Snail       | - Schistomas         |
| iii) Tsetse fly | - Trypanasoma        |
| iv) Black fly   | - Ochocerca vulvulus |

- 53 a) What is seed dispersal - Is the scattering of seeds from the parent plant to other areas
- b) Mention one agent of seed dispersal  
- animals - wind - water - self mechanism
- c) Give one advantage of seed dispersal to plants  
- prevents extinction of plant species - colonise new areas
- d) In which way can seed dispersal be bad to the crop farmer?  
- spreads weeds

- 54 a) Give one reason why farmers keep cattle  
food, income, employment, cultural purposes
- b) Why do most farmers prefer keeping exotic breeds of cattle to ~~the~~ local breeds?  
- grow faster, produce more
- c) State one characteristic of beef breeds of cattle

-rectangular shape, block shape grow fast - good converters of <sup>food</sup>

- d) Mention one example of a dairy breed of cattle  
Hereford, Aberdeen Angus, Charolais, Galloway,  
Santa Gertrudis American Brahman

55 a) Why do animals move from one place to another? - look for food, protection, look for mates

b) What does the fish use for movement  
fins

c) How does the ~~to~~ snail protect itself?  
by withdrawing into its hard shell.

d) Name the animal weapon for the wasp.  
sting