



Grade: IX Science Worksheet

Date:13.01.23

Submission Date: 19.01.23

1. What can be concluded about Sodium from the symbol?

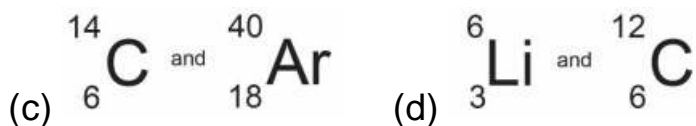
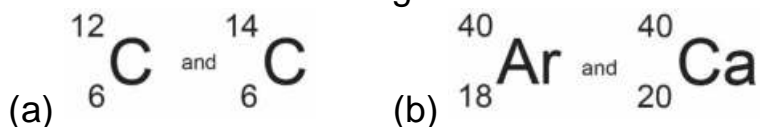
- (a) It contains 11 neutrons
- (b) It contains 12 protons
- (c) It contains 12 neutrons
- (d) It contains 34 electrons

2. Which of these statements about the **isotopes** of an element is correct?

Circle 'Yes' or 'No' for the correct response.

Is the statement correct?	Yes or No
The isotopes have the same chemical properties.	Yes / No
The isotopes have the same number of neutrons.	Yes / No
The isotopes have the same number of electrons.	Yes / No

3. Which of the following atoms are isobars?

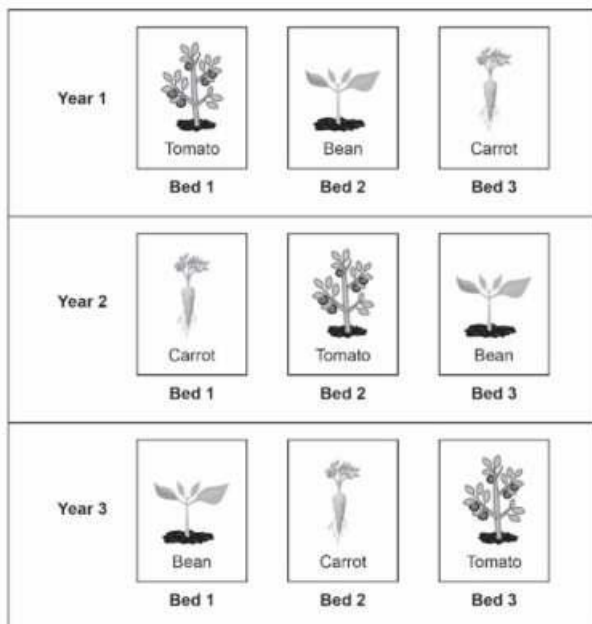


4. The inner lining of alveoli (air sacs in lungs) is very thin and delicate. Which type of tissue forms the inner lining of alveoli?

5. Which of these cells is the longest?

- (a) bone cell (b) nerve cell (c) stomach cell (d) heart muscle cell

6. The diagram shows the crop harvesting pattern followed by a farmer. Bed 1, Bed 2 and Bed 3 are different parts of the farm.



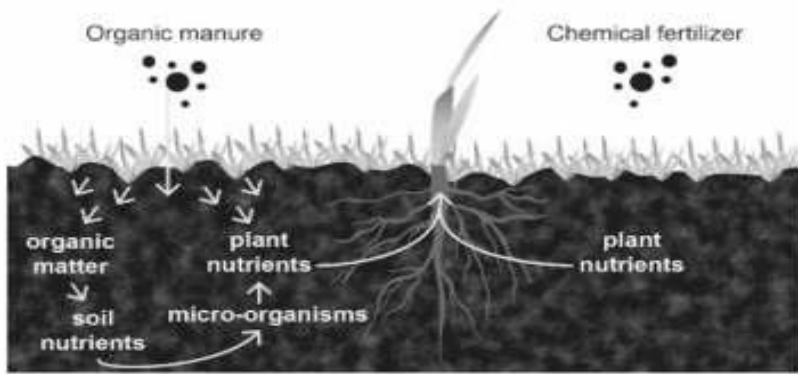
i. What is the common term used for this pattern of crop harvesting?

- (a) Crop rotation
- (b) Mixed cropping
- (c) Intercropping
- (d) organic farming

ii. What is the advantage of the crop harvesting pattern shown in the diagram?

- (a) The crops are resistant to diseases.
- (b) The harvesting time of the crops are reduced.
- (c) Less amount of water is required to irrigate the farm.
- (d) Different nutrients present in the farm soil are evenly used over time.

7. The picture shows how organic manure and chemical fertilizer are used by plants.



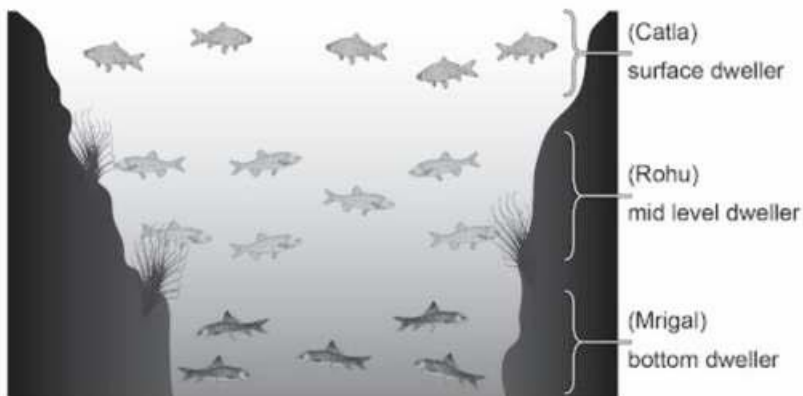
Which of these can be concluded from the picture?
 Circle 'Yes' or 'No' for the correct response

Can this be concluded from the picture? Yes or No

- (a) Organic manure provides food for the soil microorganisms. (Yes/No)
- (b) Chemical fertilizer provides nutrients that can be directly absorbed by the plants. (Yes/No)
- (c) Chemical fertilizer improves long term fertility of the soil better than organic manure. (Yes/No)

8. Composite fish culture is a process of growing different types of fish in the same pond.

The diagram shows a composite fish culture pond.



Is this true about composite fish culture? (Yes/No)

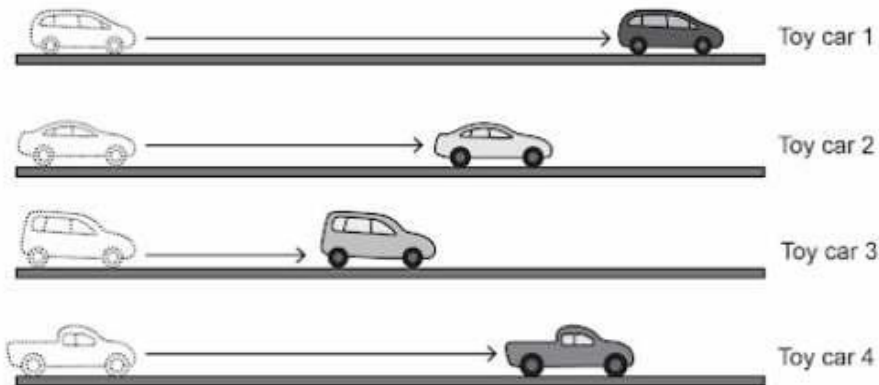
- (a) Organic manure provides food for the soil microorganisms.
- (b) Some of the fish are scavengers and feed on dead organisms.
- (c) The different types of fish can live in similar water temperatures.

Which of these is a likely advantage of composite fish culture?

- (a) Fish grow better when different species live together.
- (b) All areas of the pond are utilized for better fish production.
- (c) Fish eat less food when grown in composite culture ponds.

(d) Dissolved oxygen level is higher in composite culture ponds.

9. Rahul pushed four toy cars on a surface. The picture shows the distance each toy car travelled before coming to a stop.



In pushing which car was the work done by Rahul the greatest?

- (a) Toy car 1
- (b) Toy car 3
- (c) Toy car 2
- (d) Toy car 4

10. In which of these conditions is the work done negative?

- (a) Wind force making a boat move forward on water
- (b) Brake force resisting the motion of a moving wheel
- (c) Buoyant force slowing the sinking of an iron nail in water