

Date : 11.09.23.

Lesson : 1 ,5

Biology Chapter 5 assertion reason

In the following questions, a statement of assertion (A) is followed by a statement of reason (R). Mark the correct choice as:

- (a) Both assertion (A) and reason (R) are true and reason (R) is the correct explanation of assertion (A).
- (b) Both assertion (A) and reason (R) are true but reason (R) is not the correct explanation of assertion (A).
- (c) Assertion (A) is true but reason (R) is false.
- (d) Assertion (A) is false but reason (R) is true.

Q.1. Assertion : A cell swells up when present in a hypotonic solution.

Reason : More water molecules enter the cell than they leave.

Answer

Q.2. Assertion : The endoplasmic reticulum which lacks ribosomes is called smooth endoplasmic reticulum

Reason : SER is mainly involved in protein synthesis.

Answer

Q.3. Assertion : Mitochondria and chloroplasts are semiautonomous organelles.

Reason : They are formed by division of pre-existing organelles and contain DNA but lack protein synthesizing machinery.

Answer

Q.4. Assertion : Plasma membrane is selectively permeable.

Reason : Plasma membrane allows some molecules to pass through it more easily than others.

Answer

Q.5. Assertion : Leucoplasts perform photosynthesis.

Reason : Chloroplasts store fats, starch and proteins.

Answer

Q.6. Assertion : Cell wall is a non-living part of the cell.

Reason : It offers protection, definite shape and support.

Answer

Q.7. Assertion : A cell membrane shows fluid behaviour.

Reason : A membrane is a mosaic of lipids and proteins.

Answer

Q.8. Assertion : A plant cell bursts if placed in water.

Reason : High turgor pressure causes bursting of plant cells.

Answer

Q.9. Assertion : Mitochondria are called ‘powerhouses’ of the cell.

Reason : Mitochondria produce cellular energy in the form of ATP.

Answer

Q.10. Assertion : Plant cells have very large vacuoles.

Reason : In plant cells, vacuoles are full of cell sap.

Answer

CHEMISTRY CHAPTER 1 ASSERTION REASON

Q.1.

Assertion : A gas can easily be compressed by applying pressure.

Reason : Since the inter-particle spaces between gases are very large, they can decrease by applying pressure.

Answer

Q.2.

Assertion : Gases exert pressure on the walls of the container.

Reason : The intermolecular force of attraction is very strong in gases.

Answer

Q.3.

Assertion : It is easier to cook food at sea level as compared to higher altitudes.

Reason : The boiling point of water increases at high altitudes.

Answer

Q.4.

Assertion : When a solid melts, its temperature remains the same.

Reason : The heat gets used up in changing the state by overcoming the forces of attraction between the particles.

Answer

Q.5.

Assertion : The solids do not diffuse in air.

Reason : The particles are loosely packed in solids.

Answer

Q.6.

Assertion : The boiling point of water is 100 C.

Reason : The boiling point of water increases at higher altitudes.

Answer

Q.7.

Assertion : The conversion of a solid directly into a gas is known as sublimation.

Reason : Naphthelene does not leave residue when kept open for sometime.

Answer

Q.8.

Assertion : Ice floats on water.

Reason : Liquids have lower density than solids.

Answer

Q.9.

Assertion : Camphor burns with a lot of residue.

Reason : Camphor undergoes sublimation.

Answer

Q.10.

Assertion : The rate of evaporation increases with increase in temperature.

Reason: Increase in temperature decreases the kinetic energy of the particles.

Answer

Q.11.

Assertion : Liquids diffuses more easily as compared to gases.

Reason : Intermolecular forces are greater in liquids than in gases.

Answer

Q.12.

Assertion : Steam is better the boiling water for heating purposes.

Reason : Steam contains more heat in the form of latent heat than boiling water.

Answer

Q.13.

Assertion : Gases diffuses more easily as compared to liquids.

Reason : Intermolecular forces are greater in solids.

Answer

Q.14.

Assertion : There is a change in the temperature of the substance when there it undergoes a change in state through it is still being heated.

Reason : The heat supplied is either absorbed as a latent heat of fusion or a latent heat of vapourisation.

Answer

Q.15.

Assertion : When Sugar and Salt are kept in a container, they take the shape of the container.

Reason : Sugar is liquid.

Answer
