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Chemistry Science Questions for CDS Exams

Chemistry Quiz 3

Direction : Study the following question carefully and choose the right answer.

1. Commercial vulcanisation of rubber involves

- A. Sulphur B. Carbon C. Phosphorus D. Selenium

2. Which one of the following when dissolved in H₂O gives hissing sound?

- A. Limestone B. Slaked lime C. Soda lime D. Quicklime

3. The rusting of iron nail

- A. Decreases its weight
B. Increases its weight
C. Does not affect weight but iron is oxidized
D. Does not affect weight but iron is reduced

4. Which one of the following is heavy water used in nuclear reactor?

- A. Water having molecular weight 18 u
B. Water having molecular weight 20 u
C. Water at 40°C but having molecular weight 19 u
D. Water below the ice in a frozen sea

5. Which one of the following is correct? Setting of plaster of Paris is

- A. dehydration B. oxidation with atmospheric oxygen
C. hydration leading to another hydrate D. combination with atmospheric CO₂

6. Which one of the following is the secondary source of light in a fluorescent lamp?

A. Neon gas B. Argon gas C. Mercury vapour D. Fluorescent coating

7. Statement I Addition of water to an aqueous solution of HCl decreases the pH.

Statement II Addition of water suppresses the ionization of HCl.

A. Both the statements are individually true and Statement II is the correct explanation of Statement I

B. Both the statements are individually true but Statement II is not the correct explanation of Statement I

C. Statement I is true, but Statement II is false

D. Statement I is false, but Statement II is true

8. Which one of the following is not a chemical change?

A. Burning of coal in air

B. Fermentation of sugar cane juice

C. Crystallisation of table salt from sea water

D. Cracking of petroleum

9. Which one of the following is used in the preparation of antiseptic solution?

A. Potassium nitrate B. Iodine C. Iodine chloride D. Potassium chloride

10. Which one of the following properties changes with valency?

A. Atomic weight B. Equivalent weight C. Molecular weight D. Density

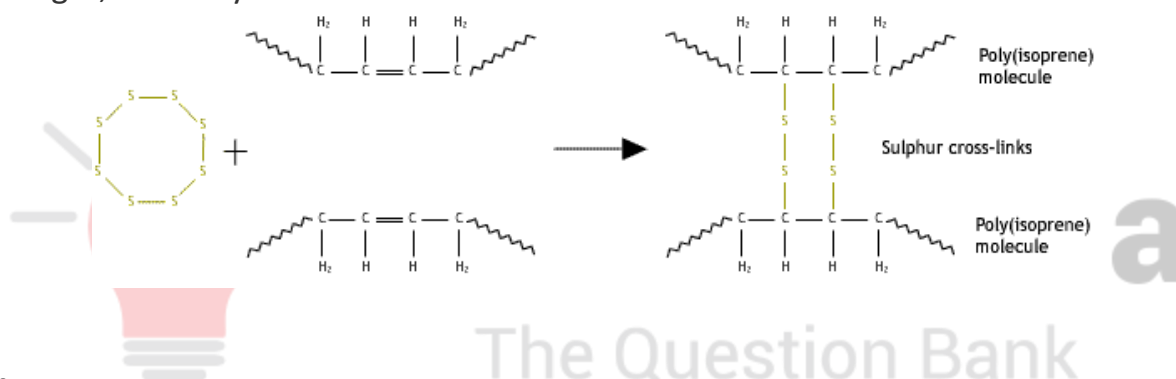
Correct Answers:

1	2	3	4	5	6	7	8	9	10
A	D	B	B	C	D	C	C	B	B

Explanations:

1.

Vulcanisation is a process in which natural rubber is treated with 3-5% sulphur, It introduces sulphur bridges between polymer chains thereby increasing its tensile strength, elasticity and resistance to abrasion.



2.

On adding water, quicklime (CaO) gives a hissing sound and forms calcium hydroxide commonly known as slaked lime.



3.

The rusting of iron nail takes place in the presence of air (oxygen) and water (moisture). It increases the weight of iron nail due to the formation of rust.



4.

Heavy water (D₂O) is used in nuclear reactor as a moderator. The molecular weight of heavy water is 20 u. It is an oxide of deuterium which is an isotope of hydrogen.

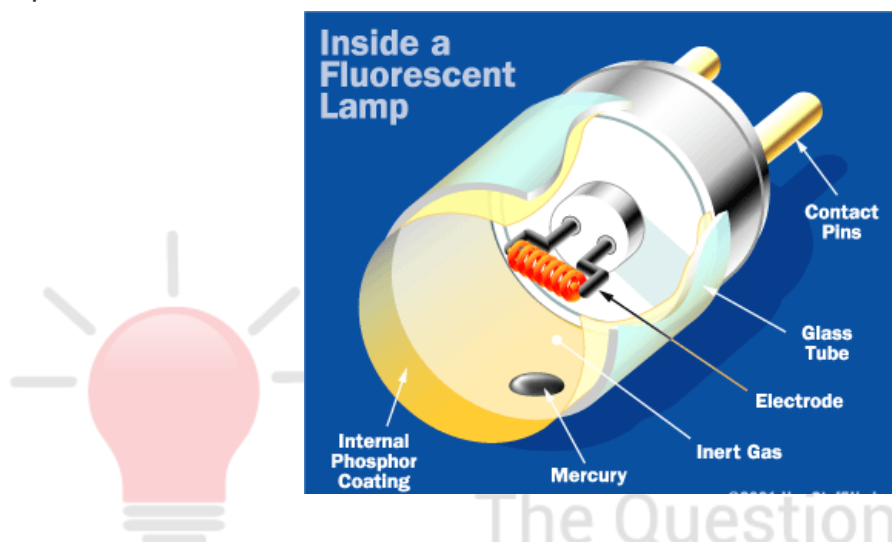
5.

Setting of plaster of Paris is the hydration leading to another hydrate i.e., gypsum.



6.

Fluorescent coating on the glass is the secondary source of light in a fluorescent lamp.



7.

Addition of water to an aqueous solution of HCl decreases the pH because on dilution the ionization or the number of H⁺ ions increases.

8.

In a chemical change a new substance is formed. During crystallisation of table salt from sea water no new substance is formed hence, it is not a chemical change.

9.

Iodine is a powerful antiseptic. It is used as a tincture of iodine which is 2-3% iodine solution in alcohol-water.

10.

Equivalent weight changes with valency while atomic weight, molecular weight and density does not change with valency.

Equivalent weight of the element = Atomic weight / Valency



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