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Chemistry Science Questions for CDS Exams

Chemistry Quiz 4

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

1. Which one of the following is the softest?

- A. Sodium B. Aluminum C. Iron D. Copper

2. Which one of the following is correct? Butter is

- A. A super cooled oil B. An emulsion C. A molecular solid D. None of these

3. Which one of the following substances is used in the manufacture of safety matches?

- A. Red phosphorus B. White phosphorus C. Phosphorus trioxide (P_2O_3)
D. Black phosphorus

4. Which one of the following is an element?

- A. Topaz B. Diamond C. Ruby D. Sapphire

5. What is the pH value of pure water?

- A. 1 B. 6 C. 7 D. 10

6. 'Misch metal' is widely used in the manufacture of which of the following?

- A. Material of car brake B. Smoke detectors C. Cigarette lighters
D. Emergency lights

7. What is the Jeweler's rouge?

- A. Ferric oxide B. Ferrous oxide C. Ferrous carbonates D. Ferric carbonate

8. As which one of the following, does carbon occur in its purest form in nature?

A. Carbon black B. Graphite C. Diamond D. Coal

9. What is the purpose of adding baking soda to dough?

A. To generate moisture

B. To give a good flavour

C. To give good colour

D. To generate carbon dioxide

10. Consider the following statements

1. Nitric acid is used in the production of fertilizers.

2. Sulphuric acid is used in the production of explosives.

Which of the statements give above is/are correct?

A. Only 1 B. Only 2 C. Both 1 and 2 D. Neither 1 nor 2

Correct Answers:

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

Explanations:

1.

Alkali metals such as lithium, sodium and potassium are soft metals. These can be easily cut with a knife.

2.

Butter is an example of a colloidal dispersion of a liquid in a solid i.e., gel.

3.

Red phosphorus is mostly used in the manufacture of safety matches and in making smoke bombs.

4.

Diamond is an element of carbon. It is an allotropic form of carbon. While ruby, topaz and sapphire are mineral (compounds). These are the valuable gemstones.

5.

Pure water is neutral in nature hence, the pH (potential of Hydrogen) value of pure water is 7..

6.

‘Misch metal’ is widely used in the manufacture of cigarette lighters. Misch metal is an alloy of cerium (50%), lanthanum (25%), neodymium (18%), praseodymium (5%) and other rare metals.

7.

Jeweler's rouge is red powdered hematite, iron (III) oxide or ferric oxide, Fe_2O_3 . It is a mild abrasive used in metal cleaners and polishes.

8.

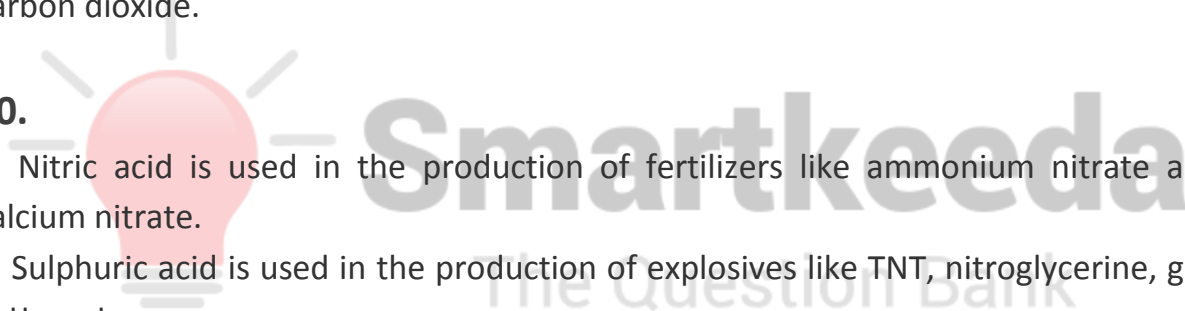
Carbon occurs in its purest form of carbon black in nature. It is a fine carbon powder made by burning hydrocarbons in insufficient air. It is used as a pigment and filler.

9.

Baking soda has sodium bicarbonate as the chief constituent. It decomposes on heating giving carbon dioxide. This causes dough, cakes, biscuits etc. to expand and become light. Hence, the purpose of adding baking soda to dough is to generate carbon dioxide.

10.

1. Nitric acid is used in the production of fertilizers like ammonium nitrate and calcium nitrate.
2. Sulphuric acid is used in the production of explosives like TNT, nitroglycerine, gun cotton etc.





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