

Multiple Choice Questions

- Question 1: Which among the following is not a physical change?
1. Melting of solids to liquids
2. Vaporisation of liquids to gases
3. Liquefaction of gases to liquids
4. Decay of matter
Answer: 4
- Question 2: Which among the following is not a chemical change?
1. Melting of ice
2. Carbon cycle
3. Dehydration of substances
4. Fermentation of substances
Answer: 1
- Question 3: Physical changes are _____.
1. temporary
2. permanent
3. irreversible
4. endothermic
Answer: 1
- Question 4: An example of a chemical change is _____.
1. formation of clouds
2. glowing of an electric light
3. dropping sodium into water
4. dissolving of salt in water
Answer: 3
- Question 5: Which of these will cause a chemical change to occur?
1. Grinding of wheat into flour
2. Lighting of a gas stove
3. Evaporation of water from a lake
4. Ringing of an electric bell
Answer: 2
- Question 6: Chemical changes are _____.
1. temporary, reversible and a new substance is produced
2. always accompanied by exchange of light
3. permanent, irreversible and a new substance is produced
4. never accompanied by exchange of light and heat energy
Answer: 3
- Question 7: Which of the following is a physical change?
1. Solubility in water
2. Combustibility
3. Aerial oxidation
4. Reaction with water
Answer: 1

Question 8: Which of the following information is conveyed by a chemical reaction?

1. The colour changes taking place
2. The structure of the reactants and products
3. The absorption of energy only
4. The masses of the reactants and products involved in the reaction

Answer: 4

Question 9: Which is the correct symbol for manganese?

1. M
2. Ma
3. Mn
4. Mg

Answer: 3

Question 10: The symbol H stands for _____ of hydrogen.

1. one atom
2. one molecule
3. one ion
4. two atoms

Answer: 1

Question 11: The correct formula for nitrogen dioxide is _____.

1. NO
2. N₂O
3. NO₂
4. N₂O₅

Answer: 3

Question 12: The correct formula for ammonium sulphate is _____.

1. NH₄SO₄
2. (NH₄)₂SO₄
3. (NH₃)₂SO₄
4. (NH₄)₂(SO₄)₂

Answer: 2

Question 13: Which of the following is an incorrect formula?

1. NaCl₂
2. BaSO₄
3. H₂CO₃
4. P₂O₅

Answer: 1

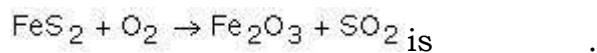
Question 14: In one molecule of ammonium sulphide there are _____.

1. 2 atoms of N, 8 atoms of H, and 1 atom of S
2. 1 atom of N, 4 atoms of H, and 1 atom of S
3. 1 atom of N, 4 atoms of H, and 2 atoms of S
4. 2 atoms of N, 8 atoms of H, and 2 atoms of S

Answer: 1

CHEMICAL REACTIONS AND EQUATIONS

Question 15: The correctly balanced equation for



1. $2\text{FeS}_2 + \text{O}_2 \rightarrow \text{Fe}_2\text{O}_3 + 4\text{SO}_2$
2. $2\text{FeS}_2 + 3\text{O}_2 \rightarrow 2\text{Fe}_2\text{O}_3 + 4\text{SO}_2$
3. $4\text{FeS}_2 + 4\text{O}_2 \rightarrow 2\text{Fe}_2\text{O}_3 + 2\text{SO}_2$
4. $4\text{FeS}_2 + 11\text{O}_2 \rightarrow 2\text{Fe}_2\text{O}_3 + 8\text{SO}_2$

Answer: 4

Question 16: The sign used to indicate a reversible reaction is _____.

1. \rightarrow
2. \cong
3. \leftarrow
4. \rightleftharpoons

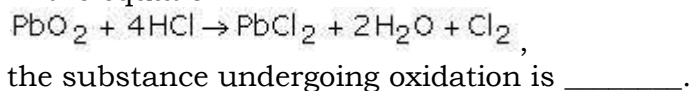
Answer: 4

Question 17: Breaking of lead bromide into lead and bromine is an example of _____.

1. decomposition reaction
2. synthesis reaction
3. displacement reaction
4. neutralisation reaction

Answer: 1

Question 18: In the equation



1. lead dioxide
2. hydrochloric acid
3. Hydrogen
4. lead chloride

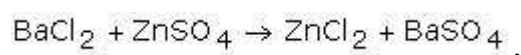
Answer: 2

Question 19: $\text{NaCl} + \text{AgNO}_3 \rightarrow \text{AgCl} + \text{NaNO}_3$ is an example of _____.

1. neutralization reaction
2. redox reaction
3. double displacement reaction
4. decomposition reaction

Answer: 3

Question 20: In the reaction: the white precipitate seen is due to _____.



1. ZnCl_2
2. BaSO_4
3. BaCl_2
4. ZnSO_4

Answer: 2

Question 21: A white solid which is yellow when hot but changes to white again on cooling is _____.

1. PbO
2. CaO
3. Ag₂O
4. ZnO

Answer: 4

Question 22: From the given list, the nitrate which gives metal, NO₂ and O₂ on heating is _____.

1. NH₄NO₃
2. NaNO₃
3. AgNO₃
4. Cu(NO₃)₂

Answer: 3

Question 23: The products of a burning candle are _____.

1. ash and water vapour
2. CO₂ and water vapour
3. wax and water vapour
4. only melted wax

Answer: 2

Question 24: Which of these metals do not corrode?

1. Lead
2. Copper
3. Platinum
4. Silver

Answer: 3

Question 25: The formula for rust is _____.

1. CuO
2. Fe₂O₃.xH₂O
3. Al₂O₃
4. AgS

Answer: 2

Question 26: The main cause of rancidity in foods is

1. Bacteria
2. Proteins
3. Antioxidants
4. Oxidation of the fatty acid molecule

Answer: 4