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#### Sample Paper – 2014 Class – X Subject – Science

### Chemical reactions and equations.

- 1. Why should a magnesium ribbon be cleaned before burning in air?
- 2. What is balanced chemical equation?
- 3. Why should chemical equation be balanced?
- 4. Give an example of double displacement reaction?
- 5. Why does colour of copper sulphate solution change when an iron nail is dipped in it?
- 6. What is exothermic and endothermic reaction?
- 7. Why respiration is considered an exothermic reaction?
- 8. What are the latest techniques used to prevent rancidity?
- 9. On what basis is a chemical equation is balanced?
- 10. Why all decomposition reactions are endothermic reaction?
- 11. When blue salt of copper sulphate is heated it becomes colourless? Why?
- 12. What does a word equation show?
- 13. What is meant by thermal decomposition reaction?
- 14. Explain law of conservation of mass?
- 15. Enlist importance of a chemical equation?
- 16. Define combination reaction?
- 17. What is oxidation?

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- 18. What are oxidizing agents?
- 19. What are reducing agents?
- 20. Explain electronic concept of oxidation and reduction?
- 21. What is corrosion? Give 2 examples.
- 22. What is rusting?
- 23. Enlist conditions necessary for rusting?
- 24. State various methods used to prevent rusting?
- 25. Describe rancidity?
- 26. Oil and fat containing food items are flushed with nitrogen. Why?

## Acids, Bases and salts

- 1. Aqueous solution of sodium carbonate is alkaline in nature. Explain why?
- 2. Why should curd and sour substances not to be kept in brass and copper vessels?
- 3. Which gas is usually liberated when an acid reacts with a metal?
- 4. Why does dry HCL gas does not change the colour of dry litmus paper?
- 5. Tap water conducts electricity whereas distilled water does not. Why?
- 6. What are acids?
- 7. Give features of acids?
- 8. What are indicators?

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- 9. What are universal indicators?
- 10. What are bases?
- 11. Explain reaction of a Non-metallic oxide with base?
- 12. What is Plaster of Paris?
- 13. Enlist uses of Plaster of Paris?
- 14. Give uses of Washing soda?
- 15. How to prepare Washing soda?
- 16. How to prepare Bleaching powder?
- 17. Give uses of Bleaching powder?
- 18. What is the effect of heat on baking soda?
- 19. What is baking soda? How it is known chemically?
- 20. Give the chemical name of washing soda?
- 21. Give two examples of hydrated salt which are white and state their chemical formula?

# **Metals and Non-metals**

- 1. What are Metals?
- 2. Explain physical properties of metals?
- 3. Explain chemical properties of metals?
- 4. What is reactivity series of metals?
- 5. What are Non-metals?
- 6. Explain physical properties of Non-metals?
- 7. Explain chemical properties of Non-metals?
- 8. Enlist properties of Ionic compounds?
- 9. What are minerals?

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- 10. What are the steps involved in extraction of metals?
- 11. Give properties of an alloy?
- 12. Give an example of metal which is a poor conductor of heat?
- 13. Why sodium is kept immersed in kerosene oil?
- 14. Why do ionic compounds have high melting points?
- 15. Why magnesium ribbon starts floating when it is placed in hot water?
- 16. Write the electron-dot structure for sodium and chlorine acid?
- 17. Why most metals conducts electricity well?
- 18. Name the ore of mercury. How mercury is extracted from its ore?

# Life processes

- 1. How do the guard cells regulate opening and closing of stomatal pores? Explain with the help on diagram.
- 2. Why nutrition a necessity for an organism?
- 3. What is likely to happen if green plants disappear from earth?
- 4. Draw a diagram of human alimentary canal.
- 5. List two vital functions of the kidneys?
- 6. What happen to glucose that enters the nephron along with filtrate?
- 7. Write two difference between autotrophic nutrition and heterotrophic nutrition?
- 8. What is nutrition?
- 9. What is excretion?
- 10. What is respiration?
- 11. What is breathing?

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- 12. What are Autotrophs?
- 13. What is the role of acid in our stomach?