

Very Short Answer Type Questions-

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| 7. Write the names and formulas of phosphatic fertilizers. | 2 |
| 8. What is hydrolysis? Give an example. | 2 |
| 9. Describe the method of preparation of ethyl alcohol from molasses. | 2 |
| 10. What is soft and hard water Write the reason for hardness of water | 2 |
| 11. Give the main uses of diamond. | 2 |

Short Answer Type Questions-

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| 12. At 20°C temperature and 780 mm pressure, 2.83 gm of gas occupies 3.895 L of its space. Find the molecular weight. | 4 |
| 13. Write four chemical properties and four uses of glycerol. | 4 |
| 14. Write the names and symbols of any two alkaline earth metals. (Write the chemical equation heating on Lime stone and ammonium nitrite.) | 4 |

Long Answer Type Questions-

15. Illustrate the method of preparation of ammonia by Haber's method. Write the chemical reaction of the following with ammonia 6
- (1) due to excess of chlorine (2) from HCL gas

Or

Illustrate the Ostwald method of preparation of Nitric acid, what happens when hot and concentrated Nitric acid reacts with the following. Give Chemical Reaction.

- (1) Copper (2) Phosphorus

16. Draw and describe the process of preparation of ethane gas Write its two chemical properties and uses. 6

Or

Describe any one method of preparation of phenol giving chemical equations.

How to obtain benzene and picric acid from phenol? Explain it by giving chemical equation.

17. What happens when:- 6

(Give chemical equations only)

1. A fresh precipitate of silver chloride is added to ammonium hydroxide.
2. Carbon dioxide is passed through lime water for a long time.
3. Orthophosphoric acid is heated.

Or

1. Benzene is heated with a mixture of concentrated sulfuric acid and concentrated nitric acid.
2. Glucose is boiled with Fehling's solution.
3. Ethyl alcohol is treated with iodine and caustic soda.