



FOR GOD AND COUNTRY

ST. LAWRENCE HIGH SCHOOL

A Jesuit Christian Minority Institution

Class: X

Worksheet Number: 1



Sub: Physical Science

F.M.: 15

Topic: Inorganic Chemistry

Date: 30th April 2020

Answer the following questions:

[1×15=15]

1. Which one is used to prepare ammonia?

- (a) NH_4Cl (b) $(\text{NH}_4)_2\text{SO}_4$ (c) NH_4NO_3 (d) $\text{Ca}(\text{OH})_2$

2. An aqueous solution of ammonia behaves as:

- (a) acid (b) basic (c) neutral (d) changes as per condition

3. Pure ammonia is collected:

- (a) over water (b) over alcohol (c) over ether (d) over mercury

4. NH_3 is a/an

- (a) oxidant (b) reductant (c) both (d) none of these

5. Ammonia turns in presence of Nessler's reagent:

- (a) black (b) green (c) brown (d) yellow

6. Liquor ammonia contains _____ ammonia.

- (a) 25% (b) 30% (c) 35% (d) 45%

7. What is the industrial manufacturing of ammonia known as?

- (a) Oswald process (b) Solvey process (c) Bayer process (d) Haber process

8. The reaction of Haber process is a:

- (a) replacement reaction (b) synthesis reaction (c) decomposition reaction (d) combination reaction

9. The catalyst used in Haber process is:

- (a) MnO_2 (b) platinum dust (c) iron powder (d) copper powder

10. Which one is produced in the first step in the manufacturing of urea?

- (a) ammonium carbamate (b) ammonium carbonate (c) ammonium sulphate (d) ammonium sulphite

11. Incomplete combustion of H₂S produce:

- (a) SO₂ (b) H₂SO₄ (c) S (d) both (a) & (C)

12. Which one is used to manufacture the sedative barbiturate?

- (a) ammonia (b) HNO₃ (c) H₂S (d) urea

13. H₂S is a poisonous gas because it:

- (a) affects the CNS
(b) decrease the efficiency of lungs
(c) causes cerebral haemorrhage
(d) deactivates the essential cellular proteins.

14. Which reaction is exothermic?

- (a) $N_2 + 3H_2 \rightarrow 2NH_3$
(b) $N_2 + O_2 \rightarrow 2NO$
(c) $4NH_3 + 5O_2 \rightarrow 4NO + 6H_2O$
(d) $2SO_2 + O_2 \rightarrow 2SO_3$

15. When Hydrogen Sulphide is passed through lead nitrate, the colour of the precipitate obtained is:

- (a) white (b) brown (c) green (d) black