



FOR GOD AND COUNTRY

ST. LAWRENCE HIGH SCHOOL

A Jesuit Christian Minority Institution

Class: X

Worksheet Number: 1



Sub: Physical Science

SOLUTION

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) $\text{Ca}(\text{OH})_2$

Answer: (c) NH_4NO_3

2. An aqueous solution of ammonia behaves as:

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

Answer: (b) basic

3. Pure ammonia is collected:

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

Answer: (d) over mercury

4. NH_3 is a/an

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

Answer: (b) reductant

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

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

Answer: (c) brown

6. Liquor ammonia contains _____ ammonia.

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

Answer: (c) 35%

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

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

Answer: (d) Haber process

8. The reaction of Haber process is a:

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

Answer: (d) combination reaction

9. The catalyst used in Haber process is:

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

Answer: (c) iron 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

Answer: (a) ammonium carbamate

11. Incomplete combustion of H.S produce:

- (a) SO_2 (b) H_2SO_4 (c) S (d) both (a) & (c)

Answer: (c) S

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

- (a) ammonia (b) HNO_3 (c) H_2S (d) urea

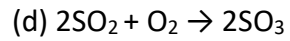
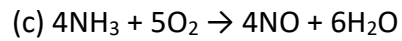
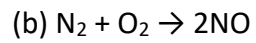
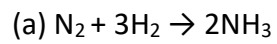
Answer: (d) urea

13. H_2S 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

Answer: (d) deactivates the essential cellular proteins

14. Which reaction is exothermic?



Answer: (b) $\text{N}_2 + \text{O}_2 \rightarrow 2\text{NO}$

15. When H_2S is passed through lead nitrate, the colour of the precipitate obtained is:

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

Answer: (d) black