

Question 20 : Red lead on reaction with dil. HNO_3 form

(A) PbO

(B) PbO_2

(C) $\text{PbO} + \text{Pb}(\text{NO}_3)_2$

(D) $\text{PbO}_2 +$

$\text{Pb}(\text{NO}_3)_2$

Solution:



(D)

Question 18 : Carbon dioxide is isostructural with



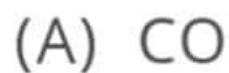
Solution:

$\text{HgCl}_2 \rightarrow$ linear structure

$\text{CO}_2 \rightarrow$ linear structure

(A)

Question 19 : Which of the following oxides is neutral



Solution:

SiO_2 is acidic, ZnO and SnO_2 are amphoteric only CO is neutral.

Question 17: AlCl_3 fumes in air because of

(A) hydrolysis (B)
dehydrates

(C) reduction (D)
oxidation

Solution: It undergoes hydrolysis and gives fumes of HCl



(A)

Question 18 : Carbon dioxide is isostructural with

(A) HgCl_2 (B) SnCl_2

(C) C_2H_6 (D) NO_2

Solution:

$\text{HgCl}_2 \rightarrow$ linear structure

$\text{CO}_2 \rightarrow$ linear structure

Question 15: Setting of plaster of paris involves

- (A) Oxidation by atmospheric oxygen
- (B) Reaction with atmospheric carbon dioxide
- (C) Dehydration
- (D) Hydration to yield another hydrate

Solution:



When mixed with water, it forms a plastic mass, within about half an hour, sets to a hard solid mass consisting of interlaced crystals of gypsum.

(D)