

- D) SiO_2 ;
- E) P_2O_5 .

22. What impurities contains extraction phosphoric acid obtained by sulfuric acid method, as opposed to thermal phosphoric acid:

- A) SO_2 , P_2O_5 , Al_2O_3 , CaO , H_2O ;
- B) P_2O_5 , Na_2O , K_2O , Fe_2O_3 , Al_2O_3 ;
- C) SO_3 , Fe_2O_3 , Al_2O_3 , CaO , MgO , F ;
- D) P_2O_5 , Al_2O_3 , H_2O , CaO , Na_2O ;
- E) Fe_2O_3 , P_2O_5 , SO_2 , CaO , CO_2 .

23. Waste process gases of extraction phosphoric acid production contain:

- A) HCl , H_2SiF_6 ;
- B) HF , SiF_4 ;
- C) NH_3 , SO_3 ;
- D) HBr , SO_2 ;
- E) HI , NO_2 .

24. In the production of extraction phosphoric acid in the process of decomposition of phosphorites with sulfuric acid, gases are formed:

- A) agglomeration;
- C) chloride;
- C) furnace;
- D) inert;
- E) fluoride.

25. In the extraction method for producing phosphoric acid, the degree of extraction of phosphorus from phosphorite is:

- A) 98%;
- B) 78%;
- C) 90%;
- D) 94%;
- E) 85%.

26. Hemihydrate the method of obtaining wet-process phosphoric acid is different from the dehydrate method:

- A) corrosion resistance;
- B) the formation of small crystals of calcium sulfate;
- C) contamination of acid by calcium sulfate;
- D) mode of washing the precipitate on the filter;
- E) low cost.

27. When obtaining extraction phosphoric acid by dihydrate method, the role of “seed” performs:

- A) circulating the slurry;
- B) a solvent;
- C) phosphogypsum, water;
- D) phosphoric acid;
- E) sulphuric acid.

28. The dihydrate method of production of extraction phosphoric acid corresponds to the following technological regime:

- A) $T=65-85^\circ \text{C}$, $\text{P}_2\text{O}_5=28-32\%$;
- B) $T=85-95^\circ \text{C}$, $\text{P}_2\text{O}_5=35-47\%$;
- C) $T=95-100^\circ \text{C}$, $\text{P}_2\text{O}_5=45-50\%$;