- 27. In electrolytic production Al with $T_{melting}$ =938 °C eutectic is achieved when the content of cryolite in the melt is equal to:
 - A) 6 35% by wt.;
 - B) 6 50% by wt.;
 - C) 15% by wt.;
 - D) from 18 to 38% by wt.;
 - E) < 65% by wt.
- 28. In the production of aluminum, secondary processes of cryolite-alumina melt electrolysis are:
 - A) at the anode: $C+O_2=CO_2$;
 - B) $2Al_2O_3+3C=4Al+3CO_2$;
 - C) $Al_2O_3+3C=2Al+3CO$; C+O=CO;
 - D) $2Al_2O_3+3C=4Al+3CO_2$; C+O=CO ;
 - E) $Al_2O_3+3C=2Al+3CO$; $2Al_2O_3+3C=4Al+3CO_2$.
- 29. In the production of aluminum, secondary processes of cryolite-alumina melt electrolysis are:
 - A) at the anode: $C+O_2=CO$;
 - B) $Al_2O_3+3C=2Al+3CO$:
 - C) $2Al_2O_3 + 3C = 4Al + 3CO_2$;
 - D) $Al_2O_3+3C=2Al+3CO$; C+O=CO;
 - E) $2Al_2O_3+3C=4Al+3CO_2$: C+O=CO
- 30. In the production of aluminum, secondary processes of cryolite-alumina melt electrolysis are:
 - A) $Al_2O_3 + 3C = 2Al + 3CO$; C + O = CO
 - B) $Al_2O_3 + 3C = 2Al + 3CO$;
 - C) $2Al_2O_3 + 3C = 4Al + 3CO_2$;
 - D) oxidation of carbon electrodes to form CO and CO₂;
 - E) $Al_2O_3+3C=2Al+3CO$; $2Al_2O_3+3C=4Al+3CO_2$.
 - 31. Processes of electrolysis of cryolyte-alumina melt in aluminium production:
 - A) at the anode: C+O=CO;
 - B) at the anode: $C+O_2=CO_2$;
 - C) oxidation of carbon electrodes to form CO and CO₂;
 - D) $Al_2O_3+3C=2Al+3CO$;
 - E) $2Al_2O_3+3C=4Al+3CO_2$, C+O=CO.
 - 32. Processes of electrolysis of cryolyte-alumina melt in aluminium production:
 - A) at the anode: C+O=CO;
 - B) at the anode: $C+O_2=CO_2$;
 - C) oxidation of carbon electrodes to form CO and CO₂;
 - D) $2Al_2O_3+3C=4Al+3CO_2$;
 - E) $Al_2O_3+3C=2Al+3CO$.
 - 33. Processes of electrolysis of cryolyte-alumina melt in aluminium production:
 - A) at the anode: C+O=CO;
 - B) at the anode: $C+O_2=CO_2$;