## TEST TASKS

#### 1. The main modifications of phosphorus are:

A) grey, white, brown;

B) blue, red;

C) yellow, orange;

D) blue, yellow;

E) white, red, black.

# 2. Modification of phosphorus, which is obtained by electric distillation of natural phosphates, is:

A) red;

B) black;

C) white;

D) green;

E) purple.

## 3. The main product produced by the combustion of phosphorus is:

A) sulphurous anhydride;

B) phosphoreum;

C) sulfuric anhydride;

D) phosphoric anhydride;

E) metaphosphoric acid.

## 4. Phosphorus-containing substance that is used in the match industry:

A) white phosphorus;

B) phosphorus chloride;

C) a sulfide of phosphorus;

D) black phosphorus;

E) blue phosphorus.

#### 5. What properties does white phosphorus have:

A) soluble in water;

B) melts at room temperature;

C) glow in the dark, has a peculiar smell;

D) freezes at low temperature;

E) does not ignite in air.

## 6. Basic reaction of phosphorus sublimation:

A)  $Ca_5(PO_4)_3F + 10HNO_3 = 3H_3PO_4 + 5Ca(NO_3)_2 + HF;$ B)  $H_3PO_4 + Na_2CO_3 = Na_2HPO_4 + H_2O + CO_2;$ C)  $Ca_3(PO_4)_2 + 5C + 2SiO_2 \rightarrow P_2 + 5CO + Ca_3Si_2O_7 - Q;$ D)  $Ca_5(PO_4)_3F + 5H_2SO_4 + nH_2O = 3H_3PO_4 + 5CaSO4 \cdot nH_2O + HF;$ E)  $Ca_5(PO_4)_3F + 7H_3PO_4 + 5H_2O = 5Ca(H_2PO_4)_2 \cdot H_2O + HF.$ 

## 7. When sublimating phosphorus in the charge as a flux is introduced:

A) asharites;

B) phosphorites;