

General chemistry

(შუალედური გამოცდის ნიმუში)

Question 1

What is the relative molecular mass of ZnO and H₂SO₄ ?

Select one:

- a. 58 and 87
- b. 37 and 28
- c. 81 and 98
- d. 64 and 98

Question 2

What is the mass of 2.5 mole Fe ?

Select one:

- a. 40
- b. 155
- c. 100
- d. 140

Question 3

How many molecules are there in a 5g sample of sulphuric acid (H₂SO₄)?

Select one:

- a. 0.3×10^{23}
- b. 5.2×10^{23}
- c. 6.2×10^{22}
- d. 0.2×10^{24}

Question 4

How many protons and neutrons are in atom of ⁷⁰31Ga ?

Select one:

- a. 31 and 29;
- b. 31 and 39;
- c. 31 and 45
- d. 31 and 70;

Question 5

Give the group number and period number for elements ₂₀Ca, ₈₀Hg.

Select one:

- a. 4 period. Ia group, 5period IIb group;

- b. 4 period. IIa group, 6 period IIb group;
- c. 3 period. Ia group, 4period IIa group;
- d. 2 period. Ia group, 5period IVb group;

Question 6

Which of the following compounds are formed by covalent bond ?

Select one:

- a. H₂O NaCl Cl₂
- b. N₂ HCl H₂
- c. KCl HBr CCl₄
- d. H₂S AlCl₃ LiCl

Question 7

Wich atoms are connected by non-polar covalent bond?

Select one:

- a. Br, Br;
- b. , Cl
- c. H, Cl;
- d. Mg, O;

Question 8

What type of hybridization is required at the central atom of the following molecules: CH₄,

Select one:

- a. sp
- b. sp²
- c. sp³
- d. sp³d

Question 9

which row contains only acidic oxides:

Select one:

- a. K₂O, SiO, SO₃
- b. CuO, Na₂O, NO
- c. CO, N₂O, NO
- d. N₂O₃, P₂O₅, CO₂

Question 10

which row contains only acids:

Select one:

- a. $\text{HCl}, \text{NH}_3, \text{H}_2\text{CO}_3$
- b. $\text{Cu}(\text{OH})\text{Cl}, \text{H}_2\text{SO}_2, \text{H}_2\text{SO}_3$
- c. $\text{HCl}, \text{Al}(\text{OH})_2\text{Cl}, \text{NH}_2\text{OH}$
- d. $\text{KCl}, \text{NaHSO}_4, \text{HNO}_3$

Question 11

which row contains only sulfides :

Select one:

- a. $\text{Na}_2\text{S}, \text{CuS}, \text{FeS}$
- b. $\text{K}_2\text{SO}_3, \text{NaHSO}_3, \text{Al}_2(\text{SO}_3)_3$
- c. $\text{ZnSO}_4, \text{KHSO}_4, \text{NaSO}_4$
- d. $\text{K}_2\text{S}_2\text{O}_3, \text{Na}_2\text{S}_2\text{O}_3, \text{CaSO}_3$

Question 12

The coordinate number of the central atom in the complex compound $\text{K}_2[\text{PtCl}_4]$ is:

Select one:

- a. 4
- b. 6;
- c. +3;
- d. 3;