

Criteria

For each of the problems (1 – 10) – the maximal score is 7.

If there are two questions in the same problem, each has a score of 3.5.

The maximal overall score for 10 problems is 70.

For each question (11 – 20) – the maximal score is 3.

If there are 2 subquestions in the same question, each has a score of 1.5.

The maximal overall score for 10 questions is 30.

Conversion table

Score	Mark
0 – 49	Did not pass
50 – 100	Passed

**The content of the colloquium in the discipline «General Chemistry»
for the students of «General medicine» specialization**

Problems

1. The ways of the solution preparation. The ways of the solution content description.
2. Complexation reactions.
3. Titrimetric analysis.
4. Redox processes. The method of electron-ion balancing.
5. Colligative properties of solutions.
6. Main concepts of chemical thermodynamics.
7. The theory of active collisions (Arrhenius equation).
8. pH of water solutions.
9. pH of buffer solutions.
10. The structure of particles of sols.

Short questions

11. Theoretical basics of titrimetric analysis.
12. Osmosis and osmotic pressure.
13. pH of physiological fluids.
14. Buffer systems of the human organism
15. Heterogeneous equilibria.
16. The laws of thermodynamics.
17. Electrochemistry.
18. Surface processes.
19. Colloid solutions.
20. Solutions of proteins.

The Head of the Department of General Chemistry



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