**General Medicine. Questions of III totalization**

1. Hyperglycemia. Causes. Pathogenesis. Manifestations.
2. Hypolycemia. Causes. Pathogenesis. Manifestations.
3. Compensatory mechanisms of hyperglycemia and hypoglycemia.
4. Changes of lipid profile in lipoprotein lipase inhibition.
5. Changes of lipid profile in increase lipoprotein lipase expresion.
6. Changes in lipid profile in lecithin-acyltransferase inhibition.
7. Changes in lipid profile in cholesterol-estertransferase activation.
8. The role of HDL cholesterol in the pathogenesis of atherogenesis.
9. Causes and pathogenesis of hypercholesterolemia.
10. General features of hypercholesterolemia.
11. Consequences of maldigestion and malabsorption of carbohydrates and lipids.
12. Hypo- and hyperproteinemias: causes, mechanisms, manifestations.
13. Hypoosmolar dehydration: causes, manifestations, pathogenetic correction.
14. Isoosmolar dehydration: causes, manifestations of pathogenetic correction.
15. Hyperosmolar dehydration: causes, manifestations, pathogenetic correction.
16. Hypoosmolar overhydration: causes, manifestations, pathogenetic correction.
17. Isoosmolar overhydration: causes, manifestations, pathogenetic correction.
18. Hypersmolar overhydration: causes, manifestations, pathogenetic correction.
19. Hypokalemia and hyperkalemia: causes, pathogenesis, manifestations.
20. Hypocalcaemia and hypercalcaemia: causes, pathogenesis, manifestations.
21. Hypoxia: types, causes, general manifestations.
22. Circulatory disorders in the systemic and pulmonary circulations in hypoxia.
23. Cardiac disorders in hypoxia.
24. Immediate reactions of homeostasis in hypoxia.Lasting reactions of homeostasis in hypoxia: the role of HIF (inducible factor of hypoxia).
25. Lasting reactions of homeostasis in hypoxia: the role of HIF (inducible factor of hypoxia).
26. Gaseous (respiratory) acidosis: causes, changes of indices in arterial blood.
27. Non-gaseous acidosis: metabolic, excretory, exogenous. Causes, changes of indices in arterial blood.
28. Gaseous (respiratory) alkalosis: causes, changes of indices in arterial blood.
29. Non-gaseous alkalosis: metabolic, excretory, exogenous. Causes, changes of indices in arterial blood.
30. Changes in cerebral perfusion in acidosis and alkalosis.
31. Changes in the level of potassium and calcium in acidosis: manifestations.
32. Changes in the level of potassium and calcium in alkalosis: manifestations.
33. Emergent and delayed compensatory reactions in acidosis and alkalosis.