**Stom, Questions for SIMU test, totalization 2 (2024-2025)**

**Pathophysiology of blood**

* + - 1. **What are the parameters of normovolemia?**
      2. **In what states is simple hypovolemia (normovolemia) found?**
      3. **What are the parameters of oligocyte hypervolemia?**
      4. **In what state is oligocythemic hypovolemia found?**
      5. **What are the parameters of polycythemic hypovolemia?**
      6. **In what state is polycythemic hypovolemia found?**
      7. **What are the parameters of oligocythemic hypervolemia?**
      8. **In which states is oligocythemic hypervolemia found?**
      9. **What are the parameters of polycythemic hypervolemia?**
      10. **In what conditions is polycythemic hypervolemia found?**
      11. **Which types of anemias are based on decreased erythropoiesis as a pathogenetic mechanism?**
      12. **Which types of anemias have as their pathogenetic mechanism the disturbance of nucleic acid synthesis and therefore hemacyte maturation?**
      13. **What type of anemia has as its underlying pathogenetic mechanism a disorder of hemoglobin biosynthesis and therefore hemacyte maturation?**
      14. **Which types of anemias are based on dysregulation of erythrocyte hemolysis as a pathogenetic mechanism?**
      15. **What are the pathogenetic mechanisms that explain the pallor of the skin, mucous membranes and nail beds in anemia?**
      16. **Which anemias are characterized by MCV (mean erythrocyte volume) > the reference values?**
      17. **What are the types of anemia in which the MCH (mean hemoglobin content in an erythrocyte) < the normal reference values?**
      18. **Which laboratory indices establish the diagnosis of iron deficiency anemia?**
      19. **Which laboratory tests establish the diagnosis of iron deficiency anemia?**
      20. **Which pathologies are responsible for dysregulation of vitamin B 12 metabolism ?**
      21. **Which pathologies are responsible for dysregulation of vitamin B 12 metabolism**
      22. **What are the clinical manifestations of pernicious vitamin B 12 deficiency anemia ?**
      23. **What are the clinical manifestations of folic acid anemia?**
      24. **What are the peripheral blood manifestations in anemia B12  deficient?**
      25. **What are the peripheral blood manifestations in folic acid anemia?**
      26. **What are the manifestations of agranulocytosis in the oral cavity?**
      27. **What are the manifestations of agranulocytosis in the oral cavity?**
      28. **What are the manifestations of B12-deficient anemia in the oral cavity?**
      29. **What are the manifestations of B12-deficient anemia in the oral cavity?**
      30. **What are the manifestations of hemolytic anemia in the oral cavity?**
      31. **What are the manifestations of hemolytic anemia in the oral cavity?**
      32. **In what pathologic conditions can neutrophilia occur?**
      33. **What causes neutrophilia?**
      34. **What is is neutrophilia with "nuclear shift to the left" ?**
      35. **What is neutrophilia with "nuclear right shift"?**
      36. **In which pathologic conditions can secondary absolute lymphocytosis occur?**
      37. **In which pathologies can secondary absolute lymphocytosis occur?**
      38. **Under what pathologic conditions can monocytosis occur?**
      39. **What is agranulocytosis?**
      40. **In what pathologic conditions can agranulocytosis occur?**
      41. **What are the manifestations of iron deficiency anemia in the oral cavity?**

**Cardiovascular pathophysiology**

1. **What are the signs of systolic heart failure?**
2. **What are the signs of vascular insufficiency?**
3. **What causes heart failure due to heart volume overload?**
4. **What are the characteristic manifestations of left heart failure?**
5. **What are the characteristic manifestations of right heart failure?**
6. **What are the characteristic manifestations of right heart failure?**
7. **What are the characteristic manifestations of right heart failure?**
8. **What are the characteristic manifestations of right heart failure?**
9. **What are the immediate compensatory cardiac reactions in heart failure?**
10. **What are the immediate compensatory cardiac reactions in heart failure?**
11. **What are the immediate extracardiac compensatory mechanisms in heart failure?**
12. **What are the immediate compensatory cardiac reactions in heart failure?**
13. **What are the immediate extracardiac compensatory mechanisms in heart failure?**
14. **What is one of the immediate extracardiac compensatory mechanisms in heart failure?**
15. **What are the late extracardiac compensatory mechanisms in heart failure?**
16. **What is one of the late extracardiac compensatory mechanisms in heart failure?**
17. **What are the immediate extracardiac mechanisms of compensation in circulatory failure?**
18. **What are the late extracardiac mechanisms of compensation in circulatory failure?**
19. **What late extracardiac compensatory mechanisms are included in circulatory failure?**
20. **How does the structure of hypertrophic myocardium change?**
21. **What are the consequences of venous stasis in circulatory insufficiency?**
22. **What are the consequences of venous stasis in circulatory insufficiency?**
23. **What are the consequences of venous stasis in circulatory failure?**
24. **How is cardiac excitability disturbed?**
25. **How is cardiac excitability disturbed?**
26. **How is cardiac automatism disturbed?**
27. **How is cardiac automatism disturbed?**
28. **What causes cardiac automaticity disorder?**
29. **What causes cardiac automaticity disorder?**
30. **What are the forms of cardiac excitability disorders?**
31. **What are the forms of myocardial conduction disorders?**
32. **What causes resistance overload of the heart?**
33. **What are the conditions associated with resistance overload of the heart?**
34. **What are the pathogenetic factors of renal arterial hypertension?**
35. **What are the pathogenetic factors of renal arterial hypertension?**
36. **Which cardiac compartments suffer hyperfunction in hypertensive disease?**
37. **What are the consequences of venous stasis in the liver?**
38. **What are the pathogenetic factors of cardiac edema?**
39. **What causes intracardiac conduction dysregulation?**
40. **What are the pathogenetic factors of renal arterial hypertension?**
41. **Which heart compartment hyperfunction occurs in hypertensive disease?**
42. **In which endocrine diseases does secondary hypertension occur?**
43. **What causes heart volume overload?**
44. **What are the compensatory reactions in long-term hypoxia?**
45. **What are the compensatory reactions in long-term hypoxia?**
46. **What are the consequences of venous stasis in circulatory insufficiency?**
47. **What are the consequences of venous stasis in circulatory insufficiency?**
48. **Where does venous stasis develop in left ventricular failure?**
49. **What is the consequence of venous stasis in the liver?**
50. **What are the consequences of venous stasis in the liver?**
51. **What are the pathogenetic factors of cardiac edema?**
52. **What are the pathogenetic factors of cardiac edema?**
53. **What is one of the pathogenetic factors of cardiac edema?**

**Pathophysiology of the respiratory system**

1. **What is hypercapnia?**
2. **What is hypoxemia?**
3. **What is lung restriction?**
4. **What is dyspnea?**
5. **What is expiratory dyspnea?**
6. **What is inspiratory dyspnea?**
7. **Which disorders lead to extraparenchymal restriction?**
8. **Which disorders lead to extraparenchymal restriction?**
9. **What causes restrictive lung disease?**
10. **What causes restrictive lung disease?**
11. **What is intra-parenchymal lung restriction?**
12. **What is pulmonary obstruction?**
13. **What factors can lead to upper airway obstruction?**
14. **What causes upper airway obstruction?**
15. **What factors can lead to lower airway obstruction?**
16. **What are the consequences of hypoxia?**
17. **What are the changes in respiratory hypoxia?**
18. **What is hyperpnea?**
19. **What is polypnea?**
20. **What is bradypnea?**
21. **What is hyperventilation?**
22. **What causes extrapulmonary restriction?**
23. **What causes intraparenchymal restrictive lung disease?**
24. **What is pulmonary obstruction?**
25. **What is asphyxia?**
26. **What changes in arterial blood gas composition are seen in hyperventilation?**
27. **What changes in acid-base balance are seen in hyperventilation?**
28. **What is hypoventilation?**
29. **What changes in alveolar air composition are seen in hypoventilation?**
30. **What changes in arterial blood gas composition are seen in hypoventilation?**
31. **What factors can cause upper airway obstruction?**
32. **What factors can cause lower airway obstruction?**
33. **What factors can cause lower airway obstruction?**
34. **What causes deep and slow (stenotic) breathing?**
35. **What causes deep and slow (stenotic) breathing?**
36. **What causes deep and slow (stenotic) breathing?**
37. **What causes deep, slow (stenotic) breathing?**
38. **Which biologically active substances have a bronchoconstrictor effect?**
39. **Which biologically active substances have a bronchoconstrictor effect?**
40. **Which biologically active substances have a bronchoconstrictor effect?**
41. **Which biologically active substances have a bronchoconstrictor effect?**
42. **What changes in acid-base balance are seen in hyperventilation?**
43. **What changes in acid-base balance are seen in hypoventilation?**

**Pathophysiology of the digestive system**

1. **How does carbohydrate metabolism change in liver failure?**
2. **How does lipid metabolism change in liver failure?**
3. **How does protein metabolism change in liver failure?**
4. **How does stomach tone and motility change in hyperchlorhydria?**
5. **How does stomach tone and motility change in hypochlorhydria?**
6. **How is stomach outlet function affected in hypersecretion with hyperacidity?**
7. **Lack of which digestive enzymes leads to lipid maldigestion?**
8. **Lack of which digestive enzymes leads to protein maldigestion?**
9. **What are the consequences of the absence of HCl in gastric juice?**
10. **What are the digestive changes in bile secretion insufficiency?**
11. **What are the digestive disorders in case of salivary amylase deficiency?**
12. **What are the factors involved in stomach ulcerogenesis?**
13. **What are the manifestations of intestinal autointoxication?**
14. **What are the manifestations of intestinal autointoxication?**
15. **What causes pathologic hyposalivation?**
16. **What exogenous factor causes stomach hypersecretion?**
17. **What exogenous factor causes stomach hypersecretion?**
18. **What exogenous factor causes stomach hypersecretion?**
19. **What endogenous factor causes stomach hypersecretion?**
20. **What endogenous factor causes stomach hypersecretion?**
21. **What causes exocrine insufficiency of the pancreas?**
22. **What causes intestinal autointoxication?**
23. **What are the consequences of dietary lipid deficiency?**
24. **What are the local manifestations of glossalgia?**
25. **What are the metabolic and digestive disorders in protein maldigestion?**
26. **What are the metabolic consequences of lipid maldigestion?**
27. **What can cause achlorhydria?**
28. **What can cause intestinal autointoxication?**
29. **What can cause pathologic hypersalivation?**
30. **What can cause steatosis?**
31. **What can be the consequences of disaccharide maldigestion?**
32. **What can be the consequences of lipid maldigestion?**
33. **What can be the consequences of protein maldigestion?**
34. **The consequences of protein maldigestion?**
35. **What can be the consequences of vomiting?**
36. **What can cause carbohydrate maldigestion?**
37. **Which carbohydrates can be absorbed from the gastrointestinal tract?**
38. **What digestive changes can be seen in exocrine pancreatic insufficiency?**
39. **What conditions can lead to ulcerative changes of the oral mucosa?**
40. **What are the consequences of insufficient pancreatic secretion?**
41. **What are the oral manifestations of infectious hepatitis?**
42. **What are the biochemical manifestations of severe cholemia?**
43. **Which substances are affected in large bowel disorders?**
44. **Which substances are affected in small bowel mucosal disorders?**
45. **What factors lead to intestinal maldigestion?**
46. **What is acholia?**
47. **What is colemia?**
48. **What are the digestive disorders in the absence of salivary amylase?**
49. **What is hypersalivation?**
50. **What can cause pathologic hypersalivation?**

**Pathophysiology of the renal system**

1. **What factors cause decreased water reabsorption in the distal and collecting tubules?**
2. **What factors cause decreased water reabsorption in the distal and collecting tubules?**
3. **What factors cause decreased distal Na ion reabsorption?**
4. **What condition causes tubular proteinuria?**
5. **What condition causes tubular proteinuria?**
6. **What factors stimulate renin secretion?**
7. **What factors stimulate renin secretion?**
8. **What stimulates renin secretion?**
9. **What are the endocrine functions of the kidney?**
10. **What are the endocrine functions of the kidney?**
11. **What are the pre-renal causes of acute kidney failure?**
12. **What are the pre-renal causes of acute kidney failure?**
13. **What is the underlying cause of acute kidney failure?**