**Totalization I (writing step)**

1. Pathological physiology. Definition, object and tasks. The pathophysiological experiment.
2. Health and illness. The stages of the disease evolution.
3. The notions of pathological reaction, pathological process and pathological condition. Examples.
4. Dental focal disease. Notion. Contemporary concepts.
5. Sanogenesis. Definition. Primary and secondary sanogenic mechanisms.
6. General etiology. Notion. The notion of the disease. Classification. The role of the cause and conditions in the onset of the disease.
7. General etiology. Notion. Causes and general conditions of mouth oral cavity disorders.
8. The pathogenesis. Notion. Basic pathogenic questions. The correlation between local and general disorders in the morbid process.
9. Cause-effect correlation in pathogenesis. Patogenetic chain. Vicious circle.
10. Mechanisms of localization and generalization of pathological processes in the oral cavity.
11. Reactivity of the body. Definition. Classification. The role of the body's reactivity in the onset and evolution of the disease.
12. Lesions of lysosomes. Causes. Mechanisms. Consequences.
13. The nucleus damage. Mechanisms. Events. Consequences.
14. The cell membrane damage. Causes. Mechanisms.
15. The cell membrane damage. Events. Consequences.
16. Mechanisms of mitochondrial lesions. Consequences.
17. Dystrophy. Notion. Types. Etiology. Pathogenesis of energy-related dystrophy.
18. Causes and mechanisms of dystrophy through oxidative stress and excess of catecholamines.
19. Causes and mechanisms of dystrophy by acidosis and excess of calcium in cytosol.
20. Dystrophy. Notion. Types. Etiology. Events. Consequences.
21. Dystrophy. Notion. Etiology. Pathogenesis. Events. Particularities of dystrophy in periodontitis.
22. Apoptosis. Definition. Stages. Mechanisms. Biological importance.
23. Apoptosis. Definition. Deregulation of apoptosis. Consequences.
24. Necrosis. Notion. Pathogenesis. Events.
25. Necrosis. Notion. Pathogenesis. The particularities of necrosis in the organs of the oral cavity.
26. Atrophy. Particularities of the atrophy process in the oral cavity.
27. Regeneration. Notion. Types.
28. The peculiarities of the regenerative process in the oral cavity organs
29. Hypertrophy. Hyperplasia. Definition. Classification. Particularities of the hypertrophy process in the oral cavity.
30. Sclerosis. Notion. Pathogenesis. Sclerosis in the organs of the oral cavity.
31. Arterial hyperaemia. Definition. Etiology. Mechanisms. Hemodynamic manifestations. Consequences.
32. Venous hyperemia. Etiology. Pathogenesis. Hemodynamic manifestations. Consequences.
33. Thrombosis in the organs of the oral cavity. Etiology. Pathogenesis. Consequences.
34. Stasis. Definition. Pathogenesis. Hemodynamic and metabolic manifestations.
35. Embolism. Etiology. Pathogenesis. Hemodynamic manifestations. Consequences.
36. Ischemia. Definition. Pathogenesis. Metabolic manifestations. Consequences.
37. Particularities of microcirculation in dental pulp tissues. Importance for the body.
38. Hemostasis. Types. Mechanisms.
39. Hypocoagulation. Pathogenesis and haemorrhagic syndrome manifestations in the oral cavity.
40. Hypercoagulation. Manifestations in the oral cavity.
41. Inflammation. Etiology. Stages. External signs.
42. Inflammation. Notion. General manifestations of the inflammation.
43. Mechanisms of primary alteration into inflammatory focus.
44. Mechanisms of secondary alteration into inflammatory focus.
45. Plasma-derived mediators of the inflammation. General biological effects into inflammatory focus.
46. Cell-derived mediators of the inflammation. Classification. General biological effects into inflammatory focus.
47. Local microcirculatory disorders into inflammatory focus. Mechanisms. Events. Importance for the organism..
48. Exsudation into inflammatory focus. Pathogenesis. Types of exudate.
49. Leukocyte migration and phagocytosis into inflammatory focus. Pathogenesis.
50. Proliferation and regeneration into inflammatory focus. Biological significance.
51. Fever. Notion. Causes. Classification of pyrogens. Thermoregulation mechanisms.
52. Fever. Stages. Pathogenesis of the increase stage. Patterns of the fever.
53. Fever. Pathogenesis of the decrease stage. Types of the fever.
54. Metabolic and functional disorders of internal organs in fever.
55. Fever. Notion. Importance for the organism.
56. Allergic reactions. Etiology. Classification of endo- and exo-allergens.
57. General pathogenesis of allergic reactions. Classification of allergic reactions (Coombs and Gell).
58. Causes of Type I allergic reactions. Pathogenesis. Stages. Events. Consequences.
59. Anaphylactic shock. Causes. Pathogenesis. Events. Consequences.
60. Type II allergic (cytotoxic-cytolytic) reactions. Causes. Pathogenesis. Mechanisms of alteration. Consequences.
61. Type III allergic reactions. Causes. Pathogenesis. Mechanisms of alteration. Serum sickness.
62. Type IV allergic reactions (delayed). Causes. Pathogenesis. Diagnostic skin samples. Transplant rejection reaction.
63. Autoallergic reactions. Classification of autoallergenes. The pathogenesis of auto-allergy. Autoimmune diseases.