

List of questions to prepare for the semester's module control

1. The history of the development of pathology.
2. Research methods in pathomorphology.
3. Modern methods of pathomorphological research.
4. Metabolic disorders of hemoglobinogenic pigments.
5. Cellular dystrophies: definition, principles of classification, mechanisms of development.
6. Disorders of mineral metabolism - calcium and copper.
7. Morphology of protein dystrophies. Causes, classification, mechanisms of development.
8. Morphology of fat dystrophies. Causes, classification, mechanisms of development.
9. Morphology of metabolism disorders of melanin and nucleoproteins.
10. Necrosis: causes, mechanisms, clinical and morphological forms, consequences.
11. Apoptosis: biological significance, mechanisms, differences between apoptosis and necrosis.
12. Amyloidosis: classification, morphological manifestations, consequences.
13. Reparation (regeneration and fibroplasia), granulation tissue, stages of wound healing.
14. Morphology of compensatory-adaptive processes: hypertrophy, hyperplasia, atrophy, metaplasia.
15. Pathological changes in a cell nucleus.
16. Pathological anatomy of organ failure.
17. Regeneration: definitions, types and levels. Sclerosis and scarring.
18. Pathomorphology of accumulation of complex proteins and lipids: hyalinosis, obesity, cachexia.
19. Signs of clinical and biological death. Fundamentals of thanatogenesis.
20. Shock: definition, types, mechanisms.
21. Venous plethora: classification, morphology, significance.
22. Anemia: causes, types, mechanisms of development.
23. Arterial plethora: classification, morphology, significance.
24. Thrombosis: causes, mechanism of thrombosis, types of thrombs, consequences.
25. Embolism: causes, types, consequences.
26. Morphology of lymphatic disorders.
27. Exudative inflammation: types, features of exudate and transudate.
28. Proliferative inflammation: types, general structure and differences of granulomas.

29. Etiology and pathogenesis of inflammation. Stages of inflammation.
30. Morphology of immunopathological processes, the role of 4 types of immunological reactions in pathology.
31. Disorders of ion-osmotic and water balance.
32. Disorders of acid-base balance.
33. Heart attack: causes, types, consequences.
34. Bleeding: types, mechanisms, consequences.
35. Blood circulation disorders: stasis, sludge, plasmorrhagia. Causes, morphology, consequences.
36. Biological and medical significance of compensatory-adaptive processes. Phases of compensatory-adaptive processes.
37. Features of a tumor cell. Anaplasia. Types of tumor growth.
38. Benign tumors. Criteria of benign tumors.
39. Precancerous conditions and malignancy.
40. Epithelial organ-specific tumors.
41. Tumors of the nervous system. Features of their biological behavior, classification.
42. Tumors of melanin-forming tissue.
43. Malignant tumors. Criteria of malignancy.
44. Mesenchymal tumors: classification, morphology, features of biological behavior.
45. Metastasis: definition, stages, ways of spreading.
46. Carcinogenesis, etiology of tumor growth.
47. Molecular basis of carcinogenesis. Antitumor immunity.
48. Malignancy process: dysplasia of epithelial and Ca in situ.
49. Differential diagnosis of benign and malignant tumors. TNM system.
50. Features of childhood tumors.