A) General Pathology

1. The forms of cellular damage. *
2. The forms of tissue damage. *
3. Adaptation disturbances, accumulation of materials. *
5. The forms of thrombosis, complications of thromboembolisation. Special forms of emboli.
7. The forms of shock and its organ manifestations. *
8. The mechanism and forms of acute inflammation. *
9. The mechanism and forms of chronic inflammation. *
10. Microscopy and macroscopy of pathologic changes caused by infections. *
11. Wound healing, regeneration, reparation. *
12. Genetic diseases: monogenic, multigenic and chromosomal diseases. *
13. Enzymopathies, storage diseases. *
14. Developmental disorders. *
15. Epidemiology of tumors. *
16. Environmental factors responsible for tumor development (physical, chemical and biological factors). *
17. Molecular mechanisms of tumor development, Inherited cancer syndromes. *
19. Progression of malignant tumors. Invasion and metastasis. *
20. Prognostic factors of tumors. *
21. Types of epithelial tumors.*
22. Types of soft tissue and bone tumors.
23. Techniques of biopsy: cytological sampling, core biopsies and surgical resection biopsies. *
24. Processing of surgical resection materials. Fields of application of special stainings and immunohistochemistry. *
25. Fields of application of molecular pathology. *
27. Mechanism of the development of atherosclerosis. *
28. Organ manifestations of atherosclerosis. *
29. Developmental, inherited and degenerative diseases of the bones and joints. *
30. Immunopathology: allergy, transplantation, immunodeficiency.*
B) Detailed organ pathology

1. Coronary diseases. The morphology and acute complications of myocardial infarction. *
2. The late complications of myocardial infarction. Chronic ischemic heart disease. *
3. The causes and organ complications of heart insufficiency. *
4. Inflammatory heart diseases.*
5. Vasculitis.*
6. The inherited and acquired structural diseases of the cardiovascular system.
7. Cardiomyopathies.*
8. Non-tumorous diseases of the head and neck region.*
9. Tumorous diseases of the head and neck region.
11. Infective diseases of the lung (excluding tuberculosis). *
12. Tuberculosis.*
13. The tumors of the lung and the pleura.*
14. The tumorous and non-tumorous diseases of the esophagus.*
15. The non-tumorous diseases of the stomach. Gastritis, gastric ulcer. *
16. The tumorous diseases of the stomach. *
17. The non-tumorous diseases of the bowels. Malabsorption, infective diseases of the bowels. *
18. The non-tumorous diseases of the bowels. IBD *
19. The tumorous diseases of the bowels. Carcinoma and precancerous lesions. *
20. The neuroendocrine tumors of the gastroenteropancreatic tract. GIST
21. The non-tumorous diseases of the liver. Toxic liver damages, pathologic changes of liver circulation.
22. The non-tumorous diseases of the liver. Hepatitis
23. The non-tumorous diseases of the liver. Cirrhosis

24. The tumors of the liver.

25. The tumorous and non-tumorous diseases of the biliary tract.


27. The non-tumorous diseases of the pancreas. Types of chronic pancreatitis.

28. The tumors of the pancreas.

29. The pathology of endocrine organs: hypophysis, parathyroid and adrenal glands. MEN syndrome.

30. The non-tumorous diseases of the thyroid.

31. The tumors of the thyroid.

32. Specific organ and histologic changes in diabetes mellitus.

33. —The non-tumorous diseases of the kidney. Pyelonephritis.

34. The non-tumorous diseases of the kidney. Glomerular diseases.

35. The non-tumorous diseases of the kidney. Tubulointerstitial diseases and vascular diseases.


37. The tumors of the kidney and pyelon.

38. Non-tumorous diseases of the lower urinary tract.

39. The tumors of the lower urinary tract.

40. Tumorous and non-tumorous diseases of the prostate.

41. Tumorous and non-tumorous diseases of the penis.

42. Tumorous and non-tumorous diseases of the testis.

43. Tumorous and non-tumorous diseases of the vulva and vagina.

44. The tumors of the cervix, Precancerous lesions.

45. Tumorous and non-tumorous diseases of the body of the uterus. The abnormalities of menstruation. Dysmenorrhea.
46. Endometriosis. Pathologic causes of infertility.
47. Tumorous and non-tumorous diseases of the tube. Non-tumorous cysts of the ovaries.
48. The tumors of the ovaries.
49. The pathology of pregnancy.
50. Perinatal pathology.
51. The non-tumorous diseases of the breast. Inflammations, fibrocystic disease.
52. The tumors of the breast.
53. The non-tumorous diseases of the hematopoetic system. Anemia and polycythemia.
54. The tumorous diseases of the hematopoetic system.
55. The non-tumorous diseases of the lymphatic system. Reactive lymphadenopathies.
56. The tumors of the lymphoid organs.
57. Intracranial circulatory disorders.
58. The non-tumorous diseases of the central nervous system. Inflammations
59. The non-tumorous diseases of the hematopoetic system. Diseases of demyelination, metabolic diseases, neurodegenerative diseases.
60. The tumors of the central nervous system.
61. The non-tumorous and tumorous diseases of the peripheral nervous system.
62. The tumors of the skin.

- also to be asked at the semifinal