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TOPICS FOR PATHOLOGY FINAL EXAM 2019/2020

General pathology

- 1. Definition of disease. Scope of pathology. Clinical features of death. Alterations of the body after death.
- 2. Pathology of cellular injury and death.
- 3. Necrosis. Apoptosis.
- 4. Adaptations: hypertrophy, hyperplasia, atrophy, metaplasia. Calcification.
- 5. Intracellular accumulations. Pigments.
- 6. Hyperemias, edema.
- 7. Hemorrhage.
- 8. Thrombosis.
- 9. Embolism.
- 10. Disseminated intravascular coagulation. Shock.
- 11. General features of acute inflammation. Features of inflammation caused by bacteria.
- 12. Sepsis. SIRS. Defects in neutrophilic granulocyte function.
- 13. Morphological classification of acute inflammation. Acute serous and fibrinous inflammation.
- 14. Acute purulent inflammation.
- 15. Acute hemorrhagic, pseudomembranous, and necrotising inflammation. Comparison of acute inflammation caused by bacteria and viruses.
- 16. Causes and morphological classification of chronic inflammation. Macrophages.
- 17. Granulation tissue, fibrosis, granulomatous inflammation. Round cell infiltrates.
- 18. Chronic inflammation associated with exudation, fibrosis or ulceration.
- 19. Regeneration. Repair by connective tissue.
- 20. Wound healing. Keloid.
- 21. Recognition of antigens. T-lymphocytes and natural killer cells. B-lymphocytes and plasma cells.
- 22. Type I hypersensitivity. Eosinophils. Mastocytes.
- 23. Type II, III , and IV hypersensitivity.
- 24. Pathology of kidney transplantation.
- 25. Autoimmune diseases in general.
- 26. Immunodeficiencies.
- 27. Structure and nomenclature of tumors. Teratoma. Hamartoma.
- 28. Classification of tumors according to clinical behavior. Cachexia.
- 29. Gross and histologic features of tumors. Epidemiology of malignant tumors.
- 30. Predisposing conditions to cancer.
- 31. Spread of malignant tumors.
- 32. Benign epithelial tumors.
- 33. Carcinomas in general. Histological types of carcinomas. Adenocarcinoma.
- 34. Squamous cell carcinoma. Basocellular carcinoma. Carcinoma of nasopharynx and oropharynx.
- 35. Tumors of melanocytes.
- 36. Carcinogenesis: general features. Repair of DNA. Regulation of the cell cycle and apoptosis. Malignant transformation: defects in DNA repair, evasion of cell death, and limitless replicative potential.
- 37. Oncogens. Tumor supressor genes.
- 38. Malignant phenotype. Flow chart: molecular basis of cancer.
- 39. Chemical carcinogenesis and occupational cancers.
- 40. Carcinogenesis induced by radiant-energy, UV light exposure, viruses and bacteria. Tumor immunology.
- 41. Clinical aspects of tumors. Paraneoplastic syndromes.
- 42. Prognosis, grading and staging of tumors. Surgical pathology report of cancers. Morphologic methods in the diagnosis of cancer.
- 43. Amyloidosis.
- 44. Pathology of prolonged bed rest.
- 45. Pathology of smoking.
- 46. Pathology of ethanol abuse.
- 47. Cystic fibrosis.
- 48. Pathology of obesity.
- 49. Pathology of ageing. Pathology in the elderly.



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- 50. Definition, classification, pathogenesis and metabolic features of diabetes.
- 51. Long term complications of diabetes.

Systematic pathology

- 52. Arteriosclerosis. Atherosclerosis.
- 53. Consequences of atherosclerosis.
- 54. Aneurysms of aorta. Dissection of aorta.
- 55. Benign essential hypertension.
- 56. Malignant essential hypertension. Secondary hypertension.
- 57. Classification of vasculitis. Vasculitides affecting the large and the medium vessels.
- 58. Small vessel vasculitides.
- 59. Disorders of the veins.
- 60. Vascular tumors.
- 61. Hypertrophy of the heart. Congestive heart failure: general features. Acute and chronic left-sided heart failure.
- 62. Acute and chronic right-sided heart failure. Hypertensive heart disease.
- 63. Arrhythmias.
- 64. Classification of ischemic heart disease. Transmural myocardial infarction.
- 65. Subendocardial infarction. Chronic ischemic heart disease.
- 66. Valvular heart disease in adults: causes, consequences. Degenerative valvular diseases. Rheumatic fever induced heart disease.
- 67. Infective endocarditis. Nonbacterial thrombotic endocarditis. Pathology of the prothetic heart valve.
- 68. Cardiomyopathy.
- 69. Myocarditis.
- 70. Congenital heart disease.
- 71. Diseases of the pericardium. Tumors of the heart and pericardium.
- 72. Sudden, unexpected death in adults.
- 73. Features of glomerulonephritis. Nephrotic syndrome and the podocytes.
- 74. Glomerular diseases associated with the nephrotic syndrome.
- 75. Glomerular diseases associated with the nephritic syndrome. Crescentic glomerulonephritis.
- 76. Glomerular diseases leading to hematuria. Chronic sclerosing glomerulonephritis.
- 77. Renal disorders in diabetic patients.
- 78. Thrombotic microangiopathies.
- 79. Classification of acute renal failure. Acute tubular necrosis.
- 80. Drug-induced tubulointerstitial nephritis. Renal disorders in multiple myeloma.
- 81. Acute pyelonephritis. Reflux nephropathy.
- 82. Chronic pyelonephritis.
- 83. Renal stones. Urinary tract obstruction. Hydronephrosis.
- 84. Diseases of the renal artery and its branches. Renal infarction. Diseases of the small arteries and arterioles: an overview.
- 85. Cystic diseases of the kidney.
- 86. Pathology of chronic kidney damage.
- 87. Tumors of the kidney.
- 88. Atelectasis. Pulmonary edema.
- 89. Respiratory distress syndrome in newborn.
- 90. Acute respiratory distress syndrome. Respiratory failure.
- 91. Pulmonary thromboembolism. Pulmonary hypertension.
- 92. Bronchiectasis.
- 93. COPD.
- 94. Bronchial asthma. Stenosis of the bronchi.
- 95. Pneumoconioses.
- 96. Chronic restrictive (interstitial) lung diseases.
- 97. Sarcoidosis. Hypersensitivity pneumonitis.
- 98. Acute bacterial pneumonias.
- 99. Pulmonary abscess. Atypical pneumonias.
- 100. Tuberculosis.
- 101. Acute bronchitis, bronchiolitis. Pathology of the pleura.



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- 102. Tumors of the lungs.
- 103. Diseases of the nose, sinuses, nasopharynx, and larynx.
- 104. Congenital diseases of the oral cavity. Diseases of the teeth and the periodontium.
- 105. Inflammations and reactive proliferations of the oral and pharyngeal mucosa.
- 106. Tumors and premalignant conditions of the oral mucosa.
- 107. Inflammatory diseases of the salivary glands. Sialolithiasis.
- 108. Tumors of the salivary glands.
- 109. Non-neoplastic diseases of the esophagus.
- 110. Tumors of the esophagus.
- 111. Gastritis.
- 112. Chronic peptic ulcer disease.
- 113. Epithelial tumors of the stomach.
- 114. Vascular diseases of the bowels. Angiodysplasia.
- 115. Idiopathic inflammatory bowel disease.
- 116. Diarrhea. Enterocolitis.
- 117. Pathology of malabsorption. Diverticulosis of the large bowel.
- 118. Polyps of the small and large bowel, polyposis.
- 119. Colorectal carcinoma. Hematochezia.
- 120. Pathology of the appendix.
- 121. Neuroendocrine tumors, lymphomas and stromal tumors of the gastrointestinal tract.
- 122. Congenital malformations of the stomach, bowels, and anus.
- 123. lleus.
- 124. Peritonitis. Tumors of the peritoneum.
- 125. Functions of liver. Jaundice.
- 126. Acute and chronic hepatitis.
- 127. Alcoholic injury of the liver. Non-alcoholic steatosis and steatohepatitis.
- 128. Autoimmune and genetic diseases of the liver.
- 129. Drug-induced liver injury. Cirrhosis of the liver. Liver involvement in systemic diseases.
- 130. Tumors of the liver.
- 131. Non-neoplastic diseases of the gallbladder and the extrahepatic ducts.
- 132. Tumors of the gallbladder and the extrahepatic bile ducts.
- 133. Acute pancreatitis.
- 134. Chronic pancreatitis.
- 135. Carcinoma of the pancreas. Islet cell tumors of the pancreas.
- 136. Classification of anemias. Aplastic anemia.
- 137. Classification of myeloid tumors. Acute myeloid leukemia.
- 138. Classification of chronic myeloproliferative diseases. Chronic myeloid leukemia. Polycythemia vera.
- 139. Essential thrombocytosis. Myelofibrosis. Myelodysplastic syndromes.
- 140. Classification of lymphoid tumors. General features of non-Hodgkin lymphomas.
- 141. Chronic lymphoid leukemia. Mantle cell lymphoma. Follicular lymphoma. Marginal zone lymphoma.
- 142. Acute lymphoid leukemias. Diffuse large B-cell lymphoma. Burkitt lymphoma.
- 143. Hodgkin's lymphoma.
- 144. Multiple myeloma.
- 145. Lymphadenitis. Infectious mononucleosis.
- 146. Disorders of the spleen. Thymoma. Tumors of the Langerhans cells.
- 147. Basic pathological alterations of the central nervous system. Brain edema and herniation.
- 148. Hydrocephalus.
- 149. Trauma of the central nervous system.
- 150. Hypoxic encephalopathy. Cerebral infarction.
- 151. Intracerebral hemorrhage. Hypertensive cerebrovascular disease.
- 152. Subarachnoid hemorrhage.
- 153. Demyelinating diseases.
- 154. Classification and causes of dementias. Alzheimer's disease.
- 155. Parkinson's disease. Parkinsonism.
- 156. Amyotrophic lateral sclerosis. Prion disease.
- 157. Infections of the central nervous system: general features. Leptomeningitides. Brain abscess.
- 158. Viral and fungal encephalitis.



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- 159. Gliomas.
- 160. Medulloblastomas, brain metastases. Clinical features of brain tumors. Meningioma. Schwannoma. Neuroblastoma.
- 161. Toxic and metabolic damage of the nervous system. Fetal alcohol syndrome.
- 162. Developmental abnormalities of the central nervous system. Perinatal brain injury.
- 163. Systemic lupus erythematosus.
- 164. Rheumatoid arthritis and other autoimmune arthritides.
- 165. Scleroderma.
- 166. Myositides.
- 167. Tumors of the urinary tract and the urinary bladder.
- 168. Non-tumorous diseases of the urinary bladder.
- 169. Pathology of the penis and the male urethra.
- 170. Prostatitis. Prostatic nodular hyperplasia.
- 171. Carcinoma of the prostate.
- 172. Non-tumorous disorders of the testis and epididymis. Male infertility.
- 173. Testicular tumors.
- 174. Benign lesions of the breast. Lesions of the male breast.
- 175. Tumors of the breast.
- 176. Pathology of the vulva and vagina.
- 177. Diseases of the cervix of uterus.
- 178. Diseases of the endometrium and myometrium.
- 179. Non-tumorous disorders of the ovaries and Fallopian tubes.
- 180. Tumors of the ovary.
- 181. Pathology of pregnancy.
- 182. Tumors of the pituitary. Hypopituitarism.
- 183. Pathology of the adrenal cortex and medulla.
- 184. Hypothyroidism. Goiters.
- 185. Hyperthyroidism. Graves-Basedow disease.
- 186. Thyroiditis.
- 187. Tumors of the thyroid.
- 188. Pathology of the parathyroid glands. Multiple endocrine neoplasia.
- 189. Osteoporosis. Renal osteodystrophy.
- 190. Pathology of bone fracture. Osteomyelitis. Osteonecrosis.
- 191. Tumors of the bones.
- 192. Diseases of the joints (except rheumatoid arthritis and other autoimmune arthritides).
- 193. Soft tissue tumors.