

DENTISTRY

EXAM QUESTIONS IN GENERAL PATHOLOGY AND ONCOLOGY

1. Introduction, methods in pathology.
2. Causes of cell injury. Cell death: necrosis, apoptosis. Gangrene.
3. Intracellular accumulations: types of accumulation, fatty change. Accumulations of glycogen, complex carbohydrates, and proteins.
4. Pigments.
5. Atrophy. Metaplasia
6. Hypertrophy and hyperplasia.
7. Calcifications: metastatic and dystrophic. Hyaline change. Amyloidosis.
8. Acute inflammation: causes, clinical signs of inflammation. Morphologic patterns of acute inflammation. Mediators, cellular and vascular response
9. Chronic inflammation: causes, morphologic patterns, clinical signs of chronic inflammation.
10. Repair: cell growth and regeneration, and wound healing.
11. Edema.
12. Congestion- passive and active
13. Hemorrhage, hemorrhagic diathesis.
14. Thrombosis. Thromboembolic disease.
15. Embolism: gas, fat, amniotic fluid.
16. Infarction. Shock.
17. Genetic diseases: cytogenetic, mendelian, and multifactorial disorders.
18. Environmental pathology: air pollution.
19. Environmental pathology: Drugs. Nutritional disorders.
20. Syphilis. Tuberculosis and sarcoidosis
21. Disorders of immune system: basic types of immune-mediated disorders, autoimmune diseases.
22. Congenital and acquired immunodeficiencies.
23. Transplantations: transplant rejections. Bone marrow transplantation. GVHD.
24. Dysplasia. Neoplasia: definitions, nomenclature. Benign and malignant tumors.
25. Epidemiology. Carcinogenesis. Precancerous lesions; dysplasia, carcinoma in situ.
26. Classification of tumors. Grading and staging. Clinical features of tumors.

EXAM QUESTIONS IN SPECIAL ONCOLOGY.

1. Tumors of blood and lymphatic vessels.
2. Leukemias: general morphologic features, clinical aspects, diagnosis.
3. Acute leukemias: lymphoid and myeloid
4. Chronic leukemias: lymphoid and myeloid
5. Plasma cell disorders. Histiocytosis X
6. Non-hodgkin lymphomas. Extranodal lymphomas.
7. Hodgkin's disease.
8. Tumors of the spleen. Tumors of heart, pericardium, pleura, mediastinum and thymus.
9. Tumors of the lung.
10. Tumors of the upper respiratory tract: nasal and paranasal cavities, nasopharynx, larynx.
11. Tumors of the esophagus and the stomach
12. Tumors of the intestine and liver.
13. Tumors of the biliary tract, and the exocrine pancreas.
14. Tumors of the kidney and collecting system.
15. Tumors of male genital system.
16. Precancerous lesions and tumors of the vulva, the vagina, and the uterine cervix
17. Precancerous lesions (endometrial hyperplasias) and tumors of the uterine body (endometrium, myometrium)
18. Tumors of the ovary, and tumors of trophoblastic origin.
19. Tumors of the breast.
20. Tumors of the endocrine glands: thyroid gland, pituitary, adrenals, endocrine pancreas, parathyroid, and MEN syndromes.
21. Melanocytic lesions of the skin.
22. Non-melanocytic tumors of the skin. Tumors of dermis and subcutis.
23. Tumors of the brain, the spinal cord and the meninges.

EXAM QUESTIONS IN SPECIAL PATHOLOGY.

1. Arteriosclerosis
2. Arterial disorders: vasculitis, aneurysms. Venous disorders
3. Ischemic heart disease.
4. Congenital heart diseases.

5. Diseases of the endocardium (including valves of the heart). Diseases of the myocardium (myocarditis, cardiomyopathy)
6. Anemias: due to decreased erythropoiesis, due to blood loss and increased destruction of RBCs.
7. Polycythemia. Chronic myeloproliferative disorders. Leukopenia. Myelodysplastic syndromes.
8. Bleeding disorders. DIC.
9. Pathology of the spleen. Pathology of thymus
10. Pathology of the lymph nodes: lymphadenitis, reactive lymphadenopathies, hyperplasia.
11. Non-neoplastic lesions of the upper respiratory tract: nasal and paranasal cavities, nasopharynx, tonsilla, larynx, trachea.
12. Congenital disorders of lung. Neonatal respiratory distress syndrome. Pulmonary vascular disorders. Adult respiratory distress syndrome
13. Chronic obstructive pulmonary diseases: chronic bronchitis, emphysema, asthma bronchiale, and bronchiectasias. Interstitial lung diseases.
14. Infections of the lung. Pneumonia.
15. Pathology of the esophagus and the stomach.
16. Pathology of the small intestine. Malabsorption syndromes, infections.
17. Pathology of the large intestine and the appendix
18. Obstructive lesions of the intestine and pathology of the peritoneum
19. Pathology of the liver: jaundice. Hepatic failure.
20. Pathology of the liver: circulatory disorders. Alcohol liver disease.
21. Pathology of the liver: infections. Cirrhosis.
22. Pathology of the biliary tract and the exocrine pancreas.
23. Pathology of the kidney: congenital anomalies. Vascular diseases. Diabetic glomerulosclerosis.
24. Kidney: glomerular and tubule-interstitial disorders.
25. Urinary tract diseases. Urolithiasis, infections.
26. Pathology of male genital system.
27. Pathology of female genital system.
28. Gestational disorders. Pathology of pregnancy.
29. Non-neoplastic lesions of the breast.
30. Pathology of the endocrine system (including diabetes mellitus).
31. Pathology of the central nervous system: infections, metabolic and congenital diseases, vascular diseases, trauma, and degenerative disorders.
32. Pathology of the peripheral nervous system. Skeletal muscle disorders.
33. Pathology of the bones, joints and tendons: congenital disorders, infections, bone fractures.

EXAM QUESTIONS IN SPECIAL PATHOLOGY- HEAD AND NECK REGION

1. Pathology of the oral cavity: manifestation of oral disorders.
2. Dental caries and pulpitis.
3. Periapical diseases. Gingivitis and periodontal diseases.
4. Stomatitis. Oral manifestation of systemic diseases.
5. Oral precancerous lesions and tumors of the oral mucosa.
6. Disorders of secretion of saliva. Sialadenitis acute and chronic. Mucocoele.
7. Lymphoepithelial sialadenitis and Sjogren syndrome.
8. Benign tumors of the salivary glands.
9. Malignant tumors of the salivary glands. MALT lymphoma.
10. Pathology and tumors of the external, middle and inner ear.
11. Pathology and tumors of the eye.
12. Fibro-osseous and giant cell lesions of head and neck region.
13. Mesenchymal tumors of head and neck region.
14. Cysts and tumors of the jaw (including odontogenic).
15. Benign and malignant cartilaginous and bone tumors of head and neck
16. Soft tissue tumors and pseudotumors of head and neck
17. Lymphomas of head and neck
18. Cutaneous lesions and tumors of head and neck
19. Nasal and sinonasal lesions and tumors
20. Pathology of hypopharynx and larynx. Tumors of oropharynx and larynx.