

DENTISTRY

EXAM QUESTIONS IN GENERAL PATHOLOGY AND ONCOLOGY

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

30. Classification of tumors.

31. Grading and staging. Clinical features of tumors. Paraneoplastic syndromes.

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
7. Extranodal lymphomas.
8. Hodgkin's disease. Tumors of the spleen.
9. Tumors of the heart, the pericardium and the pleura. Tumors of the mediastinum. Tumors of the thymus.
10. Tumors of the lung.
11. Tumors of the upper respiratory tract: nasal and paranasal cavities, nasopharynx, larynx.
12. Tumors of the esophagus and the stomach
13. Tumors of the intestine and liver.
14. Tumors of the biliary tract, and the exocrine pancreas.
15. Tumors of the kidney and collecting system.
16. Tumors of male genital system.
17. Precancerous lesions and tumors of the vulva, the vagina, and the uterine cervix
18. Precancerous lesions (endometrial hyperplasias) and tumors of the uterine body
19. Tumors of the ovary, and tumors of trophoblastic origin.
20. Tumors of the breast.
21. Tumors of the endocrine glands: thyroid gland, pituitary, adrenals, endocrine pancreas, parathyroid, and MEN syndromes.
22. Melanocytic lesions of the skin.
23. Non-melanocytic tumors of the skin. Tumors of dermis and subcutis.
24. 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 the valves of the heart
6. Diseases of the myocardium (myocarditis, cardiomyopathy)
7. Anemias: due to decreased erythropoiesis.
8. Anemias: due to blood loss and increased destruction of RBCs.
9. Polycythemia. Chronic myeloproliferative disorders.
10. Leukopenia. Myelodysplastic syndromes.
11. Bleeding disorders. DIC.
12. Pathology of the spleen. Pathology of thymus
13. Pathology of the lymph nodes: lymphadenitis, reactive lymphadenopathies, hyperplasia.
14. Noneoplastic lesions of the upper respiratory tract: nasal and paranasal cavities, nasopharynx, tonsilla, larynx, trachea.
15. Congenital disorders of lung. Neonatal respiratory distress syndrome.
16. Pulmonary vascular disorders. Adult respiratory distress syndrome
17. Chronic obstructive pulmonary diseases: chronic bronchitis, emphysema, asthma bronchiale, and bronchiectasias.
18. Interstitial lung diseases.
19. Infections of the lung.
20. Pathology of the esophagus and the stomach.
21. Pathology of the small intestine. Malabsorption syndromes, infections.
22. Pathology of the large intestine and the appendix
23. Obstructive lesions of the intestine and pathology of the peritoneum
24. Pathology of the liver: jaundice. Hepatic failure.
25. Pathology of the liver: circulatory disorders. Congenital disorders. Alcohol liver disease.
26. Pathology of the liver: infections. Cirrhosis.
27. Pathology of the biliary tract and the exocrine pancreas.
28. Pathology of the kidney: congenital anomalies. Vascular diseases. Diabetic glomerulosclerosis.
29. Kidney: glomerular disorders.
30. Kidney: tubulointerstitial disorders.
31. Urinary tract diseases.
32. Pathology of male genital system.
33. Pathology of female genital system.
34. Gestational disorders. Pathology of pregnancy.

35. Noneoplastic lesions of the breast.
36. Pathology of the endocrine system (including diabetes mellitus).
37. Pathology of the central nervous system: infections, congenital disorders, metabolic diseases, vascular diseases, trauma, and degenerative disorders.
38. Pathology of the peripheral nervous system. Skeletal muscle disorders.
39. 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.
4. Gingivitis and periodontal diseases.
5. Stomatitis.
6. Oral manifestation of systemic diseases.
7. Oral precancerous lesions and tumors of the oral mucosa.
8. Disorders of secretion of saliva. Salivary gland infections.
9. Sialadenitis. Mucocoele.
10. Lymphoepithelial sialadenitis and Sjogren syndrome.
11. Benign tumors of the salivary glands.
12. Malignant tumors of the salivary glands. MALT lymphoma.
13. Pathology and tumors of the external, middle and inner ear.
14. Pathology and tumors of the eye.
15. Fibro-osseous and giant cell lesions of head and neck region.
16. Mesenchymal tumors of head and neck region.
17. Cysts of the jaw.
18. Tumors of the jaw (including odontogenic).
19. Benign and malignant cartilaginous and bone tumors of head and neck
20. Soft tissue tumors and pseudotumors of head and neck
21. Lymphomas of head and neck
22. Cutaneous lesions and tumors of head and neck
23. Nasal and sinonasal lesions and tumors
24. Pathology of hypopharynx and larynx. Tumors of oropharynx and larynx.