

SECOND YEAR FINAL EXAM QUESTIONS

I. Splanchnology

1. The circulatory system. Definition. Constituting elements. Major (or systematic) circulation. Lesser (or pulmonary) circulation. Fetal circulation.
2. Heart - position, surface projection on the chest wall. Cardiac size, shape and external features. Pericardium.
3. Cardiac chambers and internal features. The valves of the heart.
4. Cardiac wall (endocardium, myocardium, epicardium) - structure. Fibrous skeleton.
5. Cardiac nerve supply. Coordination of cardiac activities - the conducting system. Blood supply of the heart.
6. Arteries - definition, position in the body, structure of arterial wall. Types of arteries.
7. Veins - definition, position in the body, structure of arterial wall. Types of veins.
8. Microcirculatory blood system. Arterioles, capillaries and sinusoids. Venules. Arteriovenous anastomoses.
9. The lymphoid system. Definition, constituting Blood supply. Lymph capillaries - microstructure. The thoracic duct and its tributaries. The right lymphatic duct - formation. Movements of the lymph.
10. The spleen. Position, structure, blood supply and nerve supply.
11. The lymph nodes - position, groups, structure. The tonsils. The thymus.
12. Digestive system- the major organs of the digestive system. The vestibule of the mouth. Lips. Cheeks. Blood supply and nerve supply.
13. Oral cavity proper - walls. The hard and soft palate. The oropharyngeal isthmus. The mucous membrane. Blood supply and nerves.
14. Teeth. Deciduous and permanent dentition. Structure of the tooth.
15. Tongue - parts, surfaces. The mucous membrane - papillae. The lingual tonsil. The lingual muscles. Blood supply, nerves, and lymph drainage.
16. The major salivary glands. Position, structure. Blood supply, lymph drainage, and nerves.
17. Pharynx - position, shape, parts, description. Structure of the pharyngeal wall. Blood supply, lymph drainage, and nerves.
18. Esophagus - position, parts, description. Structure of the pharyngeal wall. Blood supply, lymph drainage, and nerves.
19. Stomach - position, shape, size. Peritoneal relation of the stomach. Blood supply, lymph drainage, and nerves.
20. Stomach - parts. Structure of the wall. Glands of the stomach.
21. Small intestine. Duodenum - position, parts, description, peritoneal relation of the duodenum. Structure of the wall. Blood supply, lymph drainage, and nerves.
22. Small intestine - jejunum and ileum. Position, peritoneal relation. Structure of the wall. Blood supply, lymph drainage, and nerves.
23. Large intestine - parts, position. External features of the large intestine. Peritoneal relation. Blood supply, lymph drainage, and nerves.
24. Large intestine - the colon. Parts, position, peritoneal relation. Structure of the wall. Blood supply, lymph drainage, and nerves.
25. Caecum. The vermiform appendix - position, shape, size. Structure of the wall. Peritoneal relation. Blood supply, lymph drainage, and nerves.

26. Rectum - position, shape, size. Peritoneal relation. Structure of the wall. Blood supply, lymph drainage, and nerves.
27. Liver - position, shape, size, lobes. Peritoneal connection of the liver.
28. Structure of the liver - the liver lobule, the portal lobule, the liver acinus, microcirculation. Blood supply, lymph drainage, and nerves of the liver.
29. The biliary system. The gall bladder. Structure, description, peritoneal connection of the gall bladder. Blood supply, lymph drainage, and nerve supply.
30. Pancreas - shape, position, description, peritoneal relation. Structure. Blood supply, lymph drainage, and nerves.
31. Respiratory system. The major organs of the respiratory system -principle structure. The nose.
32. Nasal cavity - division, description, mucous membrane. Paranasal air sinuses. Blood supply, lymph drainage, and nerve supply.
33. Larynx - position, shape. Laryngeal cartilages, vocal folds, laryngeal muscles - nerve supply.
34. Larynx - the cavity of the larynx, mucous membrane. Blood supply, lymph drainage, and nerve supply.
35. Trachea - position, parts, size. The principal bronchi. The tracheobronchial tree. Structure of the wall.
36. Lungs - shape, position, description, surface marking. Lobes, segments, lobules.
37. Respiratory spaces of the lungs. Structure of a lung lobule - acinus, blood-air barrier.
38. Urinary system. Components. Kidneys - position, shape, and size. Topography of the kidneys. Capsules of the kidney.
39. Kidneys. Internal structure. Blood supply and microcirculation.
40. Excretory structures - minor and major calyces, pelvis, ureter.
41. Urinary bladder. Position, shape, and size. Peritoneal relations. Structure of the wall. Blood and nerve supply. Female urethra.
42. Endocrine system. Organs. Classification. General characteristics. Thyroid, parathyroid, and suprarenal glands - position and structure. Blood and nerve supply.
43. Male reproductive system. Organs. Testis - position, structure, and coats. Accessory ducts. Epididymis. Blood and nerve supply.
44. Accessory ducts - ductus deferens, ejaculatory duct. Seminal vesicles. Prostate gland - position, size and shape. Internal structure. Blood and nerve supply.
45. Penis. Male urethra. Blood and nerve supply.
46. Female reproductive system. Organs. Ovary - position, shape, size, peritoneal relations, suspensory ligaments. Internal structure. Blood and nerve supply, lymph drainage.
47. Uterus - position, shape, size, peritoneal relations. Suspensory ligaments.
48. Uterus. Uterine cavity. Structure. Blood and nerve supply, lymph drainage.
49. Uterine tubes - position, parts, peritoneal relations. Structure. Blood and nerve supply, lymph drainage.
50. External genital organs. Vagina - position, shape, size, peritoneal relations. Structure. Blood and nerve supply, lymph drainage.

II. Regional anatomy

51. Scalp.

52. Muscles of facial expression - groups, blood and nerve supply.
53. Blood and nerve supply of the face.
54. Muscles of mastication - action , nerve supply.
55. Joints between the skull bones. Temporomandibular joint.
56. Parotid region.
57. Temporal region.
58. Infratemporal region.
59. Lateropharyngeal and retropharyngeal spaces.
60. Digastric triangle.
61. Carotid triangle.
62. The carotid system of arteries. The common carotid artery - beginning, position and branches. External and internal carotid arteries - position and branches.
63. Infrahyoid region.
64. Posterior cervical triangle.
65. Antescalenus, interscalenus, and scalenovertebral spaces.
66. The subclavian artery. Position and branches. Anastomoses around the shoulder joint.
67. Cervical plexus. The formation, position, branches. Subcutaneous structures in the cervical, thoracic, and abdominal regions.
68. Cervical fascia.
69. Muscles of the neck - groups, attachments, action, and nerve supply.
70. Muscles of the back - groups, action, nerve supply.
71. Chest wall. Muscles and intercostal spaces. Topography of the chest wall.
72. Axilla. Shape, walls, and contents.
73. Thoracic cavity. Pleura. Pleural cavity.
74. Diaphragm.
75. Superior mediastinum.
76. Posterior mediastinum.
77. Anterior and middle mediastinum.
78. The aorta. Position and division in parts. The ascending aorta, the arch of the aorta, the thoracic aorta - branches.
79. Anterior abdominal wall. regions, muscles, fasciae. Topography of the abdominal wall. Sheath of the rectus abdominis muscle.
80. Inguinal canal. Linea alba.
81. Abdominal cavity. Walls, regions. Peritoneum - gross anatomy, blood and nerve supply.
82. Peritoneal cavity. Upper region - organs, peritoneal structures, and recesses.
83. Peritoneal cavity. Lower region - organs, peritoneal structures, and recesses.
84. Omental bursa. Greater omentum.
85. The unpaired visceral branches of the abdominal aorta - the coeliac trunk, the superior and inferior mesenteric arteries. Position and branches.
86. The hepatic portal system - constituting veins. Position of the portal vein. Anastomoses between the portal and systematic circulation.
87. Retroperitoneal space.
88. The abdominal aorta. Parietal (lateral) and paired visceral branches.
89. The superior and inferior vena cava. Position. Main tributaries. Anastomoses between the two caval veins.
90. Peritoneal cavity. Pelvic region - organs, peritoneal structures, and recesses.
91. Subperitoneal space - organs, and spaces.
92. Subcutaneous pelvic region. Perineum. Ischioanal fossa.

Recommend Resources for study:

1. *Gray's Anatomy*
2. *Human Anatomy – Regional and applied by B.D.Chaurasia*