

1. Describe the anatomical and functional differences between the PECTORIAL and PELVIC GIRDLES. (10%)
2. Describe the structural characteristics shared by all the SYNOVIAL JOINTS. (10%)
3. Name the four pairs of MUSCLES that act together to compress the abdominal contents. How do their FIBER DIRECTIONS contribute to the strength of the abdominal wall? Of these four muscles, which is the strongest flexor of the VERTEBRAL COLUMN? (10%)
4. How is CEREBROSPINAL FLUID formed and drained? Follow its PATHWAY within and around the brain. (10%)
5. Trace the sympathetic pathway (preganglionic and postganglionic axons) to the HEART, and contrast this with the sympathetic pathway to the STOMACH. (10%)
6. Describe the structure and special function of the HEPATIC PORTAL SYSTEM, and explain the significance of PORTAL-SYSTEMIC ANASTOMOSES. (12%)
7. Describe the locations, histological structure, and functions of THYMUS, TONSILS, and APPENDIX. (9%)
8. Trace the route of exhaled air from an ALVEOLUS to the EXTERNAL NARES. Name all the structures through which the air passes. (10%)
9. Describe the gross and microscopic anatomy of LIVER, GALLBLADDER, and PANCREAS. (9%)
10. Describe the anatomy and action of the THYROID GLAND. (10%)