

1. Describe the path of the SCIATIC NERVE from the sacral plexus to the ends of its branches in the leg. Please indicate the *spinal origin* of the sciatic nerve as well. (10%)
2. Name the *cranial nerves* that enter the MEDULLA OBLONGATA, and describe in detail their functions. (10%)
3. Where are ADRENAL GLANDS located? What are the *anatomical and functional differences* between the medulla and cortex of these glands? (10%)
4. Name the three types of AUTONOMIC GANGLIA. Please indicate where these ganglia are located and to which autonomic nervous systems they belong. (9%)
5. Describe the *anatomical defects* in CYSTIC FIBROSIS, ASTHMA and EMPHYSEMA. (9%)
6. List *movements* of the EYEBALLS and the principal *muscles* producing these movements. (12%)
7. How does urea produced by the LIVER reach the KIDNEYS? Please describe in detail the *vascular pathway* between these two organs. (10%)
8. Describe in detail the *route of blood* in CORONARY CIRCULATION. (10%)
9. Why is it advisable to tap cerebrospinal fluid from the LUMBAR REGION of the spinal cord rather than from the thoracic region? (10%)
10. Describe the anatomy of a TESTIS and an OVARY, and cite *major points of difference* between these two organs. (10%)