

ANATOMY
PAPER – I

Time : 3 hours
Max. Marks : 100

ANT/D/12/02/I

Attempt all questions in order.
Each question carries 10 marks

1. Describe the rotation of mid gut loop in sequence. Write a note on its clinical importance. 6+4
2. Describe the formation, structure and blood circulation of the human placenta. Write a note on abnormal sites of implantation of blastocyst. 7+3
3. Describe the development of tongue. Correlate the development with its nerve supply. 7+3
4. Describe the sequence of events in the formation of bone by endochondral ossification. Write a note on its molecular regulation. 8+2
5. Describe the formation of inter-atrial septum. Write a note on its applied anatomy. 6+4
6. Describe the microscopic structure of hepatic lobule, portal lobule and portal acinus with its clinical significance. 10
7. Define ovulation. Describe the cyclic changes occurring in the endometrium during menstrual cycle. 3+7
8. Describe the cytoarchitecture of lymph node. Write the microcirculation of lymph through the lymph node. Correlate its structure with function. 4+4+2
9. Write the microstructure of suprarenal gland. Correlate its structure with function. 6+4
10. Describe the microscopic anatomy of hypophysis cerebri. Write a note on hypothalamo-hypophyseal circulation. 5+5

ANATOMY

PAPER – II

Time : 3 hours
Max. Marks : 100

ANT/D/12/02/II

Attempt all questions in order.
Each question carries 10 marks

1. Trace the pathway of pain from the thumb of the hand and its representation with cerebral cortex. 6+4
2. Describe the visual pathways. Briefly discuss the effect of lesions at various levels. 6+4
3. Draw a transverse section of pons at the level of facial colliculus. Briefly discuss neurobiotaxis. 6+4
4. Describe the arterial supply of the various surfaces of the cerebral hemispheres. Mention its applied aspect. 7+3
5. Discuss the general somatic afferent column of brain stem. 10
6. Describe the white matter of the brain. Write a note on split brain syndrome. 7+3
7. Describe the important connections of hippocampus. Briefly discuss its applied anatomy. 7+3
8. Describe the formation and circulation of cerebrospinal fluid. Add a note on Quickensted's test. 7+3
9. Describe the connections and functions of the corpus striatum. Add a note on various dyskinesias. 7+3
10. Describe the components and important connections of ascending reticular activating system. 10

ANATOMY
PAPER – III

Time : 3 hours
Max. Marks : 100

ANT/D/12/02/III

Attempt all questions in order.
Each question carries 10 marks.

1. Discuss the morphology and applied anatomy of thoracic diaphragm. 7+3
2. Discuss the applied anatomy of fascial spaces of hand. 10
3. Describe the transverse section of spinal cord at the level of cervical region with its applied anatomy. 6+4
4. Describe the clinical anatomy of lymphatic drainage of different parts of the stomach. 10
5. Describe the nerve supply and clinical anatomy of the parotid gland. 4+6
6. Discuss the relations, blood supply and microanatomy of prostate gland. Add a note on the clinical significance of enlarged prostate. 6+4
7. Discuss the anatomical basis of spread of carcinoma of breast. 10
8. Discuss the origin, courses and branches of pudendal nerve with its applied anatomy. 10
9. Describe the attachments of deep cervical fascia. Enumerate the tissue spaces in relation to it and explain the spread of infection through them. 5+2+3
10. Discuss the anatomical basis of contraception in males and females. 5+5

ANATOMY
PAPER – IV

Time : 3 hours
Max. Marks : 100

ANT/D/12/02/IV

Attempt all questions in order.
Each question carries 10 marks

1. Describe the location, relations and applied anatomy of the cavernous sinus. 5+5
2. Describe collateral circulation with reference to types, sites and name of participating vessels and their significance. 10
3. Describe the boundaries and contents of middle ear. Add a note on its blood supply. 6+4
4. Discuss the venous drainage of thoracic cage. 10
5. Write a note on blood supply of vertebral column and add a note on its applied importance. 6+4
6. What is a sesamoid bone? Enumerate the sites, functions and characteristic features of sesamoid bones. 2+(2+3+3)
7. Discuss the morphology and movements occurring at the subtalar joints. 6+4
8. Discuss the origin, course & branches of radial nerve. Add a note on the effect of injury to the nerve in radial groove. 6+4
9. Enumerate the inguinal lymph nodes. Discuss their area of drainage and clinical importance. 3+4+3
10. Enumerate the sites of portocaval anastomoses with its applied anatomy. 5+5
