

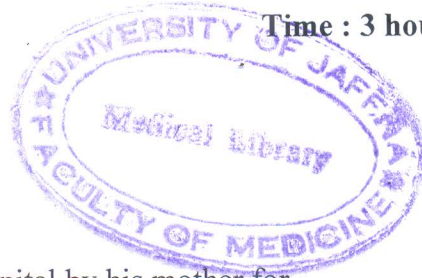
UNIVERSITY OF JAFFNA, SRI LANKA
FIRST EXAMINATION FOR MEDICAL DEGREES (2nd) –NOVEMBER 2015
ANATOMY – PAPER II

Date : 04.11.2015

Answer all TEN questions

Answer EACH PART in a separate answer book

Time : 3 hours



PART A

1. A 8-week old male child was brought to the hospital by his mother for vomiting after every feed. This condition was diagnosed as congenital hypertrophic pyloric stenosis.
 - 1.1 Write the reason for the pyloric stenosis in the above condition (10 Marks)
 - 1.2 Name the blood vessel helps in the identification of the pylorus during surgery (10 Marks)
 - 1.3 Enumerate the structures that form the stomach bed (20 Marks)
 - 1.4 Briefly describe the arterial supply of stomach (35 Marks)
 - 1.5 Write the microscopic anatomy of pyloric stomach (25 Marks)

2. A 30 year old married woman with acute pain and tenderness in the lower abdomen was admitted to the hospital. After ultrasound investigations, it was diagnosed as ectopic pregnancy in the fallopian tube.
 - 2.1 Name the normal fertilization site (10 Marks)
 - 2.2 Write the normal site of implantation (10 Marks)
 - 2.3 Write four abnormal implantation sites (20 Marks)
 - 2.4 Write the blood supply of fallopian tube (20 Marks)
 - 2.5 Briefly describe the reason for tenderness in the lower abdomen (20 Marks)
 - 2.6 Briefly describe the characteristic features of fallopian tube for its effective function (20 Marks)

3. A 3 year-old male child was brought to the hospital by his mother for the empty hemiscrotum.
 - 3.1 Mention two developmental anomalies resulting in empty scrotum in child (10 Marks)
 - 3.2 Explain the differences between the above two conditions (20 Marks)
 - 3.3 Write briefly the microscopic anatomy of testis (25 Marks)
 - 3.4 List the layers and contents of spermatic cord (25 Marks)
 - 3.5 Write the arterial supply of testis (20 Marks)

PART B

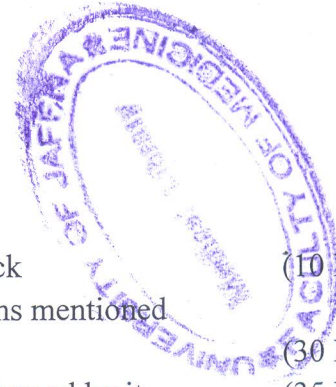
4. Regarding rectum
 - 4.1 Outline the anatomical extent and gross anatomical features of the rectum (20 Marks)
 - 4.2 Describe its relations (30 Marks)
 - 4.3 Briefly describe the mesorectum (20 Marks)
 - 4.4 Outline the lymphatic drainage of the rectum (10 Marks)
 - 4.5 Describe the arterial supply of rectum (20 Marks)

5. A 45 year old male was presented with pain and swelling of right arm following blunt trauma. On examination he was unable to do active finger and wrist extension. X-ray showed mid-shaft fracture of humerus
 - 5.1 Name the most likely associated structure injured due to the fracture of humerus in this patient (10 Marks)
 - 5.2 Explain on anatomical basis why active finger and wrist extensions are affected in this patient (40 Marks)
 - 5.3 Write the sensory distribution of the above mentioned structure (in 5.1) to the hand (25 Marks)
 - 5.4 State precisely where do you check for sensory impairment in this patient (10 Marks)
 - 5.5 Mention other common sites of humeral fracture and the most important structure that might get damaged in each site (15 Marks)

6. Explain the anatomical basis of the following
 - 6.1 Fracture of the neck of the femur leads to avascular necrosis of the head of the femur (30 Marks)
 - 6.2 Femoral hernia (30 Marks)
 - 6.3 Medial meniscus is more vulnerable to injury than lateral meniscus in the knee (20 Marks)
 - 6.4 Sensory loss in the medial aspect of the leg following varicose vein surgery (20 Marks)

7. Write notes on
 - 7.1 Blood supply of spinal cord (30 Marks)
 - 7.2 Third ventricle (30 Marks)
 - 7.3 Midbrain (40 Marks)

PART C



- 8.
- 8.1 Name the subdivisions of anterior triangle of neck (10 Marks)
 - 8.2 Outline the boundaries of each of the subdivisions mentioned above (in 8.1) (30 Marks)
 - 8.3 Describe the atlas vertebra including the joints formed by it (35 Marks)
 - 8.4 Write the structures developed from the first pharyngeal arch (25 Marks)
- 9.
- 9.1 Write notes on infratemporal fossa (30 Marks)
 - 9.2 Describe the movements performed at the temporomandibular joint (30 Marks)
 - 9.3 Outline the blood supply of face (40 Marks)
- 10.
- Write notes on
- 10.1 Structural chromosomal abnormalities (30 Marks)
 - 10.2 Pleura (30 Marks)
 - 10.3 Gross anatomy of arch of aorta (25 Marks)
 - 10.4 Surface marking of heart (15 Marks)