

**UNIVERSITY OF JAFFNA, SRILANKA**  
**FIRST EXAMINATION FOR MEDICAL DEGREES – JANUARY 2012**  
**ANATOMY - PAPER II**

**Date : 30.01.2012**

**Time : 3 hours**

**Answer all TEN questions**

**Answer EACH PART in separate answer book**

**Part A**

1. A 17 year old boy was brought to the hospital with complaints of acute pain around the umbilicus, fever and vomiting. On examination the surgeon found the area of tenderness at the Mc Burney's point and diagnosed as acute appendicitis.
  - 1.1 Write the surface marking of the Mc Burney's point (20 Marks)
  - 1.2 Name the different positions of appendix (25 Marks)
  - 1.3 Write briefly the arterial supply of appendix (25 Marks)
  - 1.4 Write short notes on microscopic anatomy of appendix (30 Marks)
  
2. A 14 year old boy was presented to the surgical clinic with absence of right testis. On examination painless lump was found in the right inguinal area. It was confirmed as an undescended testis by ultrasound scan.
  - 2.1 Describe the development, descend and abnormalities of the testis (50 Marks)
  - 2.2 List the layers and contents of spermatic cord (25 Marks)
  - 2.3 Write briefly the blood supply of testis (25 Marks)
  
3. A 38 year old male presented to the hospital with a complaint of persistent head ache and ptosis of left eye. On examination the eye was seen to be looking down and out. The pupil was dialated
  - 3.1 List the extraocular muscles and their nerve supply (20 Marks)
  - 3.2 Which nerve is likely to be affected in this condition? (10 Marks)
  - 3.3 How this nerve enters the orbit? (20 Marks)
  - 3.4 Explain the anatomical basis of this condition (40 Marks)
  - 3.5 Mention the components of the lachrymal apparatus (10 Marks)
  
4. Comment on
  - 4.1 Importance of angle of Louis (50 Marks)
  - 4.2 Coarctation of aorta and collateral circulation (50 Marks)

5.
  - 5.1 Describe the structure of 9<sup>th</sup> rib (25 Marks)
  - 5.2 Describe the structure of liver under light microscope (20 Marks)
  - 5.3 Describe the embryological development of liver (15 Marks)
  - 5.4 List the ligaments of liver and their attachments (20 Marks)
  - 5.5 Surface mark the liver (20 Marks)
  
6. Write short notes on
  - 6.1 Mesorectum (30 Marks)
  - 6.2 Gross anatomy of the ureter (40 Marks)
  - 6.3 Oesophageal varices in portal hypertension (30 Marks)

### **Part B**

7.
  - 7.1 Draw the cross section of the neck through the thyroid gland and mark the important structures (40 Marks)
  - 7.2 Mention four important structures that may be accidentally damaged or injured during thyroidectomy (20 Marks)
  - 7.3 What are the effects on the patient as a result of the above injuries mentioned in 7.2? (20 Marks)
  - 7.4 Mention four developmental abnormalities of thyroid gland (20 Marks)
  
8. Briefly discuss the anatomical defects that occurs in patient with
  - 8.1 Facial nerve palsy after parotidectomy (30 Marks)
  - 8.2 Cut injury to ulna nerve at wrist (40 Marks)
  - 8.3 Common peroneal (fibular) nerve injury at the neck of the fibula (30 Marks)
  
9. Briefly describe the lymphatic drainage of
  - 9.1 Breast (50 Marks)
  - 9.2 Head and neck (50 Marks)

### **Part C**

10. A two month old baby has undergone ventriculo-peritoneal shunt procedure for hydrocephalus
  - 10.1 What is hydrocephalus? (10 Marks)
  - 10.2 Describe the formation, circulation and absorption of cerebrospinal fluid (45 Marks)
  - 10.3 Describe the microscopic structure of the choroid plexus (25 Marks)
  - 10.4 List the different types of hydrocephalus and mention one cause for each type (20 Marks)