

UNIVERSITY OF JAFFNA, SRI LANKA
FIRST EXAMINATION FOR MEDICAL DEGREES – MAY 2010
ANATOMY PAPER II

Date : 05.05.2010

Time: 3 hours

Answer all ten questions

Answer each part in separate books

Marks allocated to each question is given within brackets

Part A

1. Briefly describe the ovary with reference to
 - 1.1 Gross Anatomy (40 Marks)
 - 1.2 Blood supply (15 Marks)
 - 1.3 Microscopic Anatomy (25 Marks)
 - 1.4 Development (20 Marks)

2. Briefly describe the prostate gland on the following headings
 - 2.1 Gross Anatomy (40 Marks)
 - 2.2 Relations (30 Marks)
 - 2.3 Microscopic Anatomy (30 Marks)

3. A 50 year old male patient had cancer of stomach and he underwent total Gastrectomy
 - 3.1 Outline the gross anatomy of stomach (25 Marks)
 - 3.2 Enumerate the structures that can be related to the posterior aspect of stomach (25 Marks)
 - 3.3 List the blood vessels and peritoneal folds that will have to be identified during gastrectomy (25 Marks)
 - 3.3 Briefly describe the histology of body of stomach (25 Marks)

Part B

- 4.1 What is synovial joint? (15 Marks)
- 4.2 Mention two examples for synovial joint of ball and socket variety (10 Marks)

- 4.3 Briefly discuss the
- (a) Stability (30 Marks)
 - (b) Capsule attachments (25 Marks)
 - (c) Blood supply of one of the above joints with the clinical significance (20 Marks)
5. Consultant Surgeon performed an inguinal herniotomy in a patient
- 5.1 Mention the boundaries of inguinal canal (30 Marks)
 - 5.2 Enumerate the contents of spermatic cord (30 Marks)
 - 5.3 What nerve is vulnerable to be injured during this procedure? (10 Marks)
 - 5.4 Mention the landmarks of the deep inguinal ring (10 Marks)
 - 5.5 Mention two factors which would help the surgeon to differentiate the direct hernia from indirect hernia during this procedure (20 Marks)

Part C

6. Write short notes on
- 6.1 Extra cranial course of facial nerve (50 Marks)
 - 6.2 Cavernous sinus (50 Marks)
7. Mention the possible sequelae of the following nerve lesions and explain on anatomical basis
- 7.1 Median nerve compression in carpal tunnel (30 Marks)
 - 7.2 Radial nerve injury in the spiral groove of humerus (35 Marks)
 - 7.3 Common peroneal nerve injury at the neck of fibula (35 Marks)

Part D

8. A 40 year old male patient underwent total thyroidectomy for uncontrolled Grave's disease (hyperthyroidism). He devolved hoarseness of voice post operatively.
- 8.1 Outline the histological features of thyroid gland in Grave's disease (20 Marks)

- 8.2 Enumerate the blood vessels supplying the thyroid gland (20 Marks)
- 8.3 Why has this patient developed hoarseness of voice after surgery? (20 Marks)
- 8.4 What is the pyramidal lobe of thyroid? (20 Marks)
- 8.5 List the structures that can be posteriorly related to thyroid gland (20 Marks)

9.

- 9.1 List the nerves responsible for eye movements and briefly outline the position of eye ball in lesions of each of these nerves (50 Marks)
- 9.2 Briefly describe the azygos system of veins (50 Marks)

10.

A 65 year old female patient presented with a lump in the right groin and it was diagnosed to be a femoral hernia

- 10.1 What are the boundaries of femoral triangle? (25 Marks)
- 10.2 What are the contents of femoral triangle? (25 Marks)
- 10.3 What is the relationship between the femoral sheath and the femoral hernia? (25 Marks)
- 10.4 What are the boundaries of the femoral canal? (25 Marks)
