



UNIVERSITY OF JAFFNA, SRILANKA
FIRST EXAMINATION FOR MEDICAL DEGREES – MARCH 2011
ANATOMY PAPER II

Date : 28.03.2011

Time : 3 hours

Answer all TEN questions

Answer EACH PART in separate answer book

Part A

1. A 70 year old man had difficulty in micturition for the past 6 months. Investigations confirmed that it was a benign prostatic hyperplasia.
 - 1.1 Write briefly about the true capsule and false capsule (25 Marks)
 - 1.2 Name the zones which are involved in carcinoma of prostate and benign prostatic hyperplasia (10 Marks)
 - 1.3 Write briefly about the
 - 1.3.1 Gross anatomy of prostate gland (40 Marks)
 - 1.3.2 Microscopic anatomy of prostate gland (25 Marks)

2. Regarding oesophagus
 - 2.1 Mention the levels of constrictions in the oesophagus and its clinical importance (30 Marks)
 - 2.2 Write the blood supply of oesophagus (30 Marks)
 - 2.3 Write briefly the development of oesophagus and its congenital anomalies (40 Marks)

3. A 26 year old married woman with acute pain in the lower abdomen was admitted to the hospital. After investigations, it was diagnosed as ectopic pregnancy
 - 3.1 Name the different parts of fallopian tube (20 Marks)
 - 3.2 How the fallopian tube is adapted for its function? (25 Marks)
 - 3.3 Write the normal site of fertilization (10 Marks)
 - 3.4 Name the normal site and three abnormal sites of implantation (20 Marks)
 - 3.5 Write the blood supply and lymphatic drainage of uterus (25 Marks)

4. Axillary clearance was done in a patient for breast carcinoma
 - 4.1 Describe the axillary lymphnodes and their classification (40 Marks)
 - 4.2 What other locoregional lymphnodes receive lymphatics from breast? (15 Marks)
 - 4.3 Name the vulnerable structures those can be damaged during simple mastectomy (removal of breast) and axillary clearance (20 Marks)
 - 4.4 As a result of the above injuries what effects can be clinically seen? (25 Marks)

5. Discuss the anal canal under the following headings
- | | | |
|-----|---------------------|------------|
| 5.1 | Anatomical location | (20 Marks) |
| 5.2 | Mucous membrane | (20 Marks) |
| 5.3 | Sphincters | (40 Marks) |
| 5.4 | Development | (20 Marks) |

Part B

6. Write short notes on
- | | | |
|-----|---------------------------------|------------|
| 6.1 | Carpal flexor tunnel | (50 Marks) |
| 6.2 | Flexion and opposition of thumb | (50 Marks) |
7. 7.1 Briefly discuss the extracranial course of facial nerve in relevant to clinical anatomy (50 Marks)
- 7.2 Briefly mention the gross anatomy of submandibular gland (50 Marks)
8. Discuss the hip joint under following headings
- | | | |
|-----|---------------|------------|
| 8.1 | Type of joint | (15 Marks) |
| 8.2 | Blood supply | (20 Marks) |
| 8.3 | Stability | (40 Marks) |
| 8.4 | Movements | (25 Marks) |

Part C

9. 9.1 List the main arteries and the branches supplying the colon (30 Marks)
- 9.2 At what vertebral levels do these main arteries originate? (20 Marks)
- 9.3 What is marginal artery (of Drummond)? (10 Marks)
- 9.4 What is the venous drainage of the large bowel? (20 Marks)
- 9.5 List the sites where porto-systemic anastomosis occur (20 Marks)

Part D

10. 10.1 Describe the pain pathway from the sole of the right foot (50 Marks)
- 10.2 Describe the functional components of glossopharyngeal nerve (50 Marks)