Date: 22-11-2023
1123 E350
First Year MBBS Examination
I MBBS Anatomy Paper 2
Time: 3 hours Max Marks: 100

Instructions: 1. Answer to the points. 2. Figure to the right indicates marks. 3. Use separate answer books for each section. 4. Draw diagrams wherever necessary. 5. Write legibly.

Section 1

1. Write the following structured Long Question (any 1 out of 2) (10)

a) Describe the knee joint under: (2+3+3+2=10)
a) Bones forming the joint and classification. b) Menisci & cruciate ligaments c) Locking & Unlocking d) Clinical anatomy

b) Write the root value, course & relations and branches of sciatic nerve (1+3+2+4=10)

2. Write the following Case based scenario/Applied short notes. (Any 2 out of 3) (12)

a) A 42 year old bus conductor reports to surgery OPD with complaints of pain and swellings in both legs on prolonged standing. On examination he found to have dilated and tortuous veis on medial side of boththe legs. Tortuosity was maximum ianterior to medial malleolus.With knowledge of anatomy answer

the following: (1+5=6) 1. What condition the bus conductor is suffering from and which vein is involved. 2. Describe the course, tributaries and perforators of the vein

b) A 70 year oldpatient with history of chronic bronchitis and constipation complained that he noticed a gradually increasing swelling in the right groin and often feels dragging and aching sensation at the site. On examination doctor noticed a gradually increasing lumo above and medial to the right pubic tubercle which expands on coughingAfter manually reducing the swelling/lump doctor occludes the deep inguinal ring with his thumb and asked the patient to cough. A swelling appeared medial to the thumb. Diagnosis of direct inguinal hernia was made(3+3=6)1. What is inguinal hernia? Describe types of inguinal hernia 2. Mention the mechanisms to maintain the integrity of inguinal canal.

c) Explain the anatomical basis of retrosternal pain and its radiation to left arm in a patient whose coronary angiogram revealed a block in the anterior interventricular artery. Dwscribe area of distribution of left coronary artery (2+4=6)

3. Write short notes (Any 3 out of 4) (18)

a) Process of spermatogenesis

b) karyotyping and criteria for classification of

chromosomes in karyotyping
c) Development of intervenricular septum and its applied aspect
d) Draw a neat labelled diagram and explain the microscopic structure of fundus of stomach

4. Answer only in 2-3 sentences (any 5 out of 6) (10)
a) Enumerate Congenital anomalies of kidney
b) Lyons hypothesis
c) Enumerate the derivatives of mesonephric duct in the male
d) Mucosa associated lymphoid tissue (MALT)
e) Meckle`s diverticulum
f) Enumerate the differences between proximal convoluted tubules and distal convoluted tubules

Section 2

5. Write the following structured Long Question (any 1 out of 2) (10)
a) Describe the uterus as follows: (5+3+2=10).
a) Supports of uterus and its clinical anatomy.
b) Development and congenital anomalies. c) Histology of proliferative phase of endometrium
b) Describe formation, course and relation of the portal vein. Add anote on sites of portosystemic anastomosis and their applied anatomy (3+5+2=10)

6. Write short notes (Any 2 out of 3) (12)

a) Nerve supply of urinary bladder and its clinical anatomy
b) Factors amintaining medial longitudinal arch of the foot and its clinical anatomy
c) With a schematic diagram depict anterior and posterior relation of right and left kidney

7. Write short notes (Any 3 out of 4) (18)
a) Internal features of right atrium
b) Enumerate the major openings in thoraco abdomibal diaphragm and structures passing through. Add anote on the development of diaphragm
c) Azygos system of veins
d) Draw a neat labelled diagram of th medial surface of left lung showing hilum and relations/impressions

8. Answer only in 2-3 sentences (any 5 out of 6) (10)
a) Developmetal basis of difference in the course of right and left recurrent laryngeal nerve
b) Enumerate the contents of superficial perineal pouch in the male
c) Enumerate the branches of superior mesenteric artery
d) Name the boundaries of popliteal fossa
e) Location of myenteric and meissner's plexus
f) Trabecular carneae.