

Date: 08-02-2024

4002

First Year MBBS Examination

I MBBS Anatomy Paper 2 (New)

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. Multiple Choice Question (20)

- a) Which of the following ligament prevent hyperextension of hip? A. Iliofemoral ligament B. Pubo-ischial ligament C. Pectofemoral ligament D. Pubo-ischial ligament
- b) Select the incorrect statement about the caecum: A. It forms the commencement of the large intestine B. It is ampullary type in most of the cases c) It has greater breadth than length D) It develops from hindgut OD 00
- ~~c) Which of the following muscles are inserted~~

over iliotibial tract? a. Gluteus minimus & gluteus medius B. Gluteus maximus & minimus C. Tensor fascia latae & gluteus maximus D. Tensor fascia lata & quadratus femoris

d) Which of the following clinical condition is caused by monosomy? A. Klinefelter syndrome B. Turner syndrome C. Down syndrome D. Cri-du-chat syndrome

e) Posterior relation of foramen of Winslow is a Liver B. Duodenum C. Inferior vena cava D. Pharynx

f) Inferior Most structure of right hilum of is A. Bronchus B. Inferior pulmonary vein C. Pulmonary artery D. Inferior bronchial vein

g) Injury to superficial peroneal nerve cause inability to do which of the following action? A. Loss of eversion B. Loss of inversion C. Loss of dorsiflexion D. Loss of plantarflexion

h) All of the following are developed from septum transversum except: A. Fibrous pericardium B. Parietal pleura C. Central tendon of diaphragm D. Fibrous stroma of liver

i) Deep perineal pouch contains: A. Bulb of penis B. Crura of penis C. Bulbospongiosus D. Membranous urethrae

j) Individuals with sickle cell disease appear healthy at birth. This is due to which one of the following? A. Presence of HbF B. Presence of HbS C. Presence of HbA D. Presence of HbD

k) Which structure lies immediately lateral to femoral hernia? A. Lateral cutaneous nerve of thigh B. Femoral nerve C. Femoral artery D. Femoral vein

l) Seminal vesicle develops from A. Mullerian duct B. Wolffian duct C. Prostatic urethra D. Prostate

m) During which week of intrauterine life, the buccopharyngeal membrane ruptures? A. Fourth weeks B. Sixth weeks C. Eight weeks D. Tenth weeks

n) 2nd constriction in oesophagus is seen at the following site: A. Where it crosses left main bronchus B. Crossing of aorta C. At pharyngo-oesophageal junction D. Where it pierces the diaphragm

o) Gallbladder is devoid of: A. Mucosa B. Submucosa C. Lamina propria D. Serosa

p) Corona radiata is a feature of which of the following ovarian follicle? A. Primary B. Primordial C. Secondary D. Graafian

q) What cells can serve as stem cells for

replacing type I alveolar cells 2 A, Goblet cells
B, Type II alveolar cells C. Blood monocytes D.
Type I alveolar cells

r) Lymphatic drainage of umbilicus A. To the
axillary lymph node only B. To the inguinal
lymph node only C) Both axillary and inguinal
lymph D. To coeliac lymph node

s) All of the following structures from the
stomach bed except A. Body of pancreas B.
Splenic artery C. Right crus and dome of
diaphragm D. Transverse mesocolon

t) Gartner's cyst is seen in: A, Fallopian tube B.
Uterus C. Vagina D Labia

Section 2

2. Structured Long questions (2 out of 2) (10)

- a) Describe root value, origin, course and relation, branches clinical anatomy of sciatic nerve, (2+3+3+2)
- b) Describe the medial longitudinal arch of foot, Write down its applied anatomy. (5+5)

3. Case Based Questions (2 out of 3) (10)

- a) A 63 year old woman tripped while coming out of the bathroom, She complained of pain on the left hip and she was unable to move her left lower limb. On admission to casualty ward, the orthopaedic surgeon found her left lower limb was rotated laterally and shortened, The radiograph revealed fracture neck of the left femur, (1+2+2) Write a. Why fracture of the neck of the femur is more common in elderly? Write down different types of fractures of the neck femur. b. Why was the lower limb rotated laterally and shortened? c. What is avascular necrosis of the head of femur? Why avascular necrosis occurs in intracapsular fractures of the neck femur?
- b) A 25 year old man visited a surgeon with complaints of dragging feeling in the left scrotum, On examination of the scrotum, the surgeon felt normal testis. Palpation of the

spermatic cord gave "bag of worms" feeling to the examining finger. (1+2+2) a. What is this clinical condition called? b. Why palpation of the spermatic cord gave "bag of worms" feeling? c. Why is it common on the left side?

c) A 35 year old man visited a chest physician for severe pain on the right side of his chest for past 10 days and difficulty in breathing. He also complained that pain also radiated to the anterior abdominal Wall, On examination, the chest physician noticed the absence of breath sounds over the lower lobe of his right lung. The PA radiograph of his chest revealed blunting of right costophrenic angle and: line of fluid level. The chest physician told the patient that he had fluid in the chest cavity and it had to be drained. (1+2+2) a. What is this condition called? Enumerate the recesses of pleura. b, In which intercostal space will the chest physician insert needle to drain the fluid? What are the layers pierced by the needle during pleural tapping? c. What is the anatomical bag of radiation of pain to the anterior abdominal wall?

4A.Short Answer questions: (Short Notes)

10 (10)

- a) Klinefelter's syndrome OR Karyotyping 05
- b) 2nd week of embryonic period OR Paraxial mesoderm

4B.Short Answer questions: (Short Notes)

Any Two 10 (10)

- a) Mesentery
- b) Pudendal canal 5
- c) Inversion and inversion of foot

5.Write following structured essay question: (1 out of 2) 10

- a) Describe formation, tributaries of portal vein.
Write down sites and veins taking part in
portosystemic anastomosis & its clinical
anatomy. (2+2+3+3)
- b) Describe parts, supports, blood supply &
applied anatomy-of uterus, (2+4+2+2)

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Section 3

6. Write Short notes on (2 out of 3) 10 (10)

- a) Bronchopulmonary segments
- b) Posterior mediastinum
- c) Arterial supply of heart

7A. Write short notes on (Histology) Any One 05 (5)

- a) Suprarenal gland
- b) Duodenum:

7B. Write short notes on: Any One: 05 (5)

- a) Development of pancreas
- b) Development of Interventricular septum

8. Write Answer in or two sentences: ANY Five 10 (10)

- a) Write down boundaries & contents of Calot's triangle.
- b) What is perineal body? Write down its function.
- c) What is cervical rib?
- d) Name the positions of primary piles. How they formed? -
- e) Name the muscles of second layer of sole.
- f) What is AETCOM?
