

Date: 06-04-2021

## **GGA 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 (20)**

##### **1. MCQ**

- a. Superficial Inguinal ring is opening in A. External oblique muscle of abdomen B. Internal oblique muscle of abdomen C. Aponeurosis of External oblique of abdomen D. Fascia transversalis
- b. All of the following are branches of Coeliac trunk EXCEPT A. Left gastric artery B. Splenic artery C. Right gastric artery D. Common hepatic artery
- c. Plantar flexion at ankle joint is brought by all of the following muscles EXCEPT A. Plantaris B. Flexor Hallucis Longus C.

## Soleus D. Tibialis Anterior

- d. Which of the following ligament prevents anterior displacement of femur on tibia when knee is flexed? A. Anterior cruciate ligament B. Posterior cruciate ligament C. Fibular collateral ligament D. Ligament of Patellae
- e. Which of the following structure is found in superior and posterior mediastinum? A. Internal thoracic artery B. Thoracic duct C. Arch of Aorta D. Thymus
- f. Brunner's glands are characteristically seen in A. Stomach B. Duodenum C. Ileum D. Large intestine
- g. Cell present in fallopian tube is A, Peg cell B. Clara cell C. Paneth cell D. Goblet cell
- h. Median umbilical ligament is a remnant of A. Urachus B, Umbilical artery C. Umbilical vein D. None of the above
- i. Chromosomal pattern in Turner's syndrome is A. 45X0 B. 46XYC. 4TXXX D. 47XXY
- j. Transtubercular plane lies at which vertebral level A. L1 B. L3 C. L5 D. S3
- k. Lateral plantar artery is a branch of: A. Anterior tibial artery. B. Posterior tibial artery C. Dorsalis pedis artery D. Arcuate artery
- l. Male to male transmission is a key feature

- of which pattern of inheritance? A. Autosomal dominant B. Autosomal recessive C. X-linked dominant D. X-linked recessive
- m. The first week of human development is characterized by formation of the A. inner cell mass B. trophoblast C. blastocyst D. All of the above
- n. All of the following muscles in the inferior extremity have double nerve supply EXCEPT A. Pectineus B. Biceps femoris C. Adductor Magnus D. Lumbrical
- o. Bone having largest nutrient artery is A. Femur B. Fibula C. Hip bone D. Tibia
- p. All of the following take part in formation of urogenital diaphragm EXCEPT A. Colles' fascia B. Deep transverse Perineal muscle C. Sphincter urethrae D. Perineal membrane
- q. Which heart valve sound is best heard with stethoscope placed in left second intercostal space just lateral to sternum? A. Mitral B. Pulmonary C. Tricuspid D. Aortic
- r. Main hormone responsible for ovulation is A. FSH B. LH C. Estradiol D. Progesterone
- s. INCORRECT about intercostal nerves is A. Provides motor supply to peripheral part of diaphragm B. Provides motor supply to intercostal muscles C. Provides sensory

- supply to costal parietal pleura D. Provides sensory supply to parietal peritoneum by lower intercostal nerves
- t. All of the following derived from paramesonephric duct in female EXCEPT
- A. Fallopian tube B. Uterus C. Ureter D. Upper 1/3 of vagina

## Section 2 (10)

2. Long Answer Questions: (1 out of 2)
  - a. Describe in detail about formation and factors maintaining medial longitudinal arch of foot with its applied anatomy.
  - b. Write the boundaries of femoral triangle. Describe origin, course, relations & branches of femoral artery,
3. Case based scenario: (2 out of 3) (10)
  - a. A 40 years old female met with an accident. On examination, doctor found fracture of upper end of right fibula. She was given plaster for one month. After removal of cast, she found following complaints 1. Sensory loss over lateral aspect of lower part of right leg. 2. She was unable to dorsiflex and evert her foot.
    - a. Name the involved nerve in above condition.
    - b. Give anatomical basis of complaint of sensory loss in above nerve.
    - c. Give anatomical basis of motor function loss in above case.
    - d. Give root value of above involved nerve
  - b. A 65 years old male admitted in hospital with complaint of swelling in groin region since 2 months. After examinations surgeon as advised surgery. During surgery, surgeon found the swelling is

- medial to inferior epigastric artery. Answer the following questions: 24241
- a. Which type of hernia the patient has? Give reasons for it.
  - b. Enumerate any two differential diagnoses of swelling in groin region
  - c. Define Littre hernia.
- c. A 65 years old male patient admitted with chronic angina. Coronary angiography reveals blockage of left anterior descending artery. Answer the following questions: 1+2+2
- a. Which other structure is running along with above artery ?
  - b. Name the area supplied by above artery.
  - c. Write the full form of CABG & PTCA,
4. Answer the following questions Short answer questions: (10)
- a. Down's syndrome. OR Genetic Counselling.
  - b. Primitive streak. OR Spermatogenesis.
5. Short answer questions (2 out of 3) (10)
- a. Great Saphenous Vein.
  - b. Greater Omentum.
  - c. Supports of Uterus.

## Section 3

6. Long answer question: (1 out of 2) (10)
    - a. Describe external features, coverings and relations of kidney.
    - b. Describe in detail about boundaries, subdivisions, contents, recesses and applied aspect of Ischiorectal fossa.
  7. Short answer questions: (2 out of 3) (10)
    - a. Interior of Right Atrium
    - b. Azygos vein
    - c. Recesses of pleura.
  8. short answer questions: (10)
    - a. Microscopic anatomy of Liver. OR  
Microscopic anatomy of Lung.
    - b. Development of pancreas. OR  
Developmental anomalies of Heart.
  9. Write in one or two sentences: (5 out of 6) (10)
    - a. Mention any two characteristics of Hamstring group of muscles with its examples.
    - b. Enumerate the structures passing through the aortic opening of diaphragm.
    - c. Enumerate any 4 contents of spermatic cord.
    - d. Define: a. Decidua basalis and b. Decidua capsularis.
    - e. What is AETCOM?
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f. Before what time the dead body has to be donated after death for teaching purpose to medical college? Why?

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