

SS/MBBS-I/ANA-II/05-22**First MBBS Supplementary Examination****2022****(May)****ANATOMY****Paper-II****Full Marks: 100****Time: 3 hours****The figures in the margin indicate****full marks for the questions****Write the answers to the two Halves in separate books****Answer all questions****FIRST HALF**

1. Multiple choice questions. The following questions have four options. You are required to choose the most correct answer : 1X10=10

(a) SA node is the pacemaker of heart which is located

(i) On the left side of superior vena caval opening

(ii) at the upper end of the crista terminalis

(iii) in the triangle of Koch's

(iv) in the non-coronary sinus

(b) Pelvic diaphragm is formed by

(i) levator ani muscle

(ii) perineal membrane

(iii) internal sphincter muscle

(iv) obturator internus muscle

(c) Ligamentum teres hepatis is the remnant of obliterated

(i) left umbilical artery

(ii) right umbilical artery

(iii) left umbilical vein

(iv) right umbilical vein

(d) Supporting cells of the spermatogenesis are

(i) interstitial cells of Leydig

(ii) spermatids

(iii) secondary spermatocytes

(iv) Sertoli cells

(e) Which of the following structures is ectodermal in origin?

(i) Adrenal cortex

(ii) Sweat gland skin

(iii) Liver

(iv) Dermis of the skin

(f) Which of the following muscles is supplied by femoral nerve?

(i) Adductor longus

(ii) Pectineus

(iii) Obturator externus

(iv) Gracilis

(g) Which statement is true for hamstring group of muscles?

- (i) Powerful extensor of knee joint
- (ii) Powerful flexor of the knee joint
- (iii) All are supplied by obturator nerve
- (iv) All are attached to tibia bone

(h) Which of the following is an important landmark for counting the ribs?

- (i) Jugular notch
- (ii) Costoclavicular joint
- (iii) Sternal angle
- (iv) Xiphisternal joint

(i) Number of Barr body presents in chromosomes of Turner's syndrome is

- (i) one
- (ii) two
- (iii) three
- (iv) None of the above

(j) Brunner's gland is a characteristic histological feature of

- (i) body of the stomach.
- (ii) pyloric part of the stomach
- (iii) duodenum
- (iv) Ileum

2. Answer the long-type questions :

(a) Describe arches of foot under the following headings : (1 + 5 + 6 + 3 = 15)

- (i) Types of arches
- (ii) Structures forming the arches with suitable diagram
- (iii) Factors maintaining the arches
- (iv) Applied importance

(b) Describe kidneys under the following headings : (1 + 4 + 4 + 3 + 3 = 15)

- (i) Location
- (ii) Structures related with suitable diagrams
- (iii) Development
- (iv) Histology
- (v) Applied importance

3. A football player during a kick for a goal suddenly fell down due to pain in the knee and was taken to a nearby hospital for X-ray. After imaging the knee joint doctor reported ligament tear on the medial aspect of knee joint. Now with your knowledge of anatomy write about the following : (2 + 2 + 3 + 3 = 10)

- (a) Type and subtype of knee joint
- (b) Articular surfaces in erect posture
- (c) Ligaments of the knee joints
- (d) Movements and muscles acting on it

Second Half

4. Describe briefly any seven of the following: 5x7=35

- (a) Hamstring group of muscle, attachment, nerve supply and actions
- (b) Fibrous skeleton of heart
- (c) Development of interatrial septum and atrial septal defect

- (d) Hesselbach's triangle-its boundaries and clinical correlation
- (e) Ischiorectal fossa - boundaries, contents and applied anatomy
- (f) Turners syndrome

- (g) Gastrulation
- (h) Dizygotic twin

5. Write briefly on any five of the following: 2x5=10

- (a) Structure lodge in the coronary sulcus of the heart
- (b) Contents of the rectus sheath
- (c) Histological layers of the trachea
- (d) Functions of placenta
- (e) Coverings of testis
- (f) Ischial tuberosity of the hip bone

6. Describe briefly the role of medical student towards an embalmed cadaveric body for the purpose of dissection. 5

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