



RAN - 2006000101010002

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1st MBBS Examination January - 2023
Human Anatomy
Paper - 2 Set - 2
Time: 3 Hours]
[Total Marks: 100
સૂચના : / Instructions

- (1) નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
 Fill up strictly the details of signs on your answer book
- Name of the Examination:
 1st MBBS
- Name of the Subject :
 Human Anatomy Paper - 2 Set - 2
- Subject Code No.: 2006000101010002

Seat No.:

Student's Signature

- (2) Write each section in separate answer book.
- (3) In section A, all MCQs are compulsory, only one answer will be accepted, no negative marking & must be submitted within first 30 minutes.
- (4) Section A carry 20 marks and Section B & C carry 40 marks each.
- (5) Draw labelled diagrams wherever necessary.
- (6) Write to the point.

SECTION A - MCQs
1 × 20 = 20

1. Don't correlate about root value is
 - a) Ilio-inguinal nerve - L1
 - b) Ilio-hypogastric nerve - L1-L2
 - c) Subcostal nerve - T12
 - d) Genito-femoral nerve - L1-L2
2. True regarding 2nd part of duodenum is
 - a) Related with right kidney
 - b) Crossed by transverse colon
 - c) Related with pancreatic head
 - d) All of above

3. Inferior mesenteric vein drains into
 - a) Splenic vein
 - b) Left renal vein
 - c) Inferior vena cava
 - d) None of above
4. Vertebral level of aortic opening in thoraco-abdominal diaphragm is
 - a) T12
 - b) T10
 - c) T11
 - d) T8
5. At its lowest, recto-uterine pouch provides coat of peritoneum to
 - a) Urinary bladder
 - b) Uterine cervix
 - c) Uterine body
 - d) Vagina
6. Femoral nerve supplies all of following EXCEPT
 - a) Pectineus
 - b) Iliacus
 - c) Adductor magnus
 - d) Vastus medialis
7. All are lateral rotators of hip EXCEPT
 - a) Gluteus medius
 - b) Obturator internus
 - c) Quadratus femoris
 - d) Sartorius
8. Incorrect about adductor canal
 - a) Located at middle 1/3rd of thigh
 - b) Opens in popliteal fossa
 - c) Lies deep to Sartorius
 - d) Transmits profunda femoris vessels
9. Main muscular supports for medial longitudinal arch are all EXCEPT
 - a) Tibialis anterior
 - b) Peroneus brevis
 - c) Tibialis posterior
 - d) Flexor hallucis longus
10. Spring ligament connects
 - a) Talus & navicular
 - b) Calcaneum & navicular
 - c) Calcaneum & cuboid
 - d) Talus & cuboid
11. Incorrect about right coronary artery is
 - a) Gives marginal branch
 - b) Arises from anterior aortic sinus
 - c) Gives anterior inter-ventricular branch
 - d) Descends in right atrio-ventricular groove

12. Pleural sacs extend beyond thoracic cage at following sites EXCEPT
 - a) Right costo-xiphoid angle
 - b) Left costo-xiphoid angle
 - c) Right costo-vertebral angle
 - d) Left costo-vertebral angle
13. Correct about thoracic duct is
 - a) Enter thorax through vena caval opening
 - b) Drains into right subclavian vein
 - c) Courses through posterior & superior mediastinum
 - d) Lies posterior to oesophagus in superior mediastinum
14. All drain in coronary sinus EXCEPT
 - a) Great cardiac vein
 - b) Anterior cardiac veins
 - c) Middle cardiac vein
 - d) Posterior vein of left ventricle
15. Example of dense regular connective tissue is
 - a) Dermis
 - b) Superficial fascia
 - c) Capsule of glands
 - d) Tendon
16. Brunner's glands are located in
 - a) Duodenum
 - b) Jejunum
 - c) Ileum
 - d) Colon
17. Intra-embryonic coelom is formed in
 - a) Lateral plate mesoderm
 - b) Intermediate mesoderm
 - c) Paraxial mesoderm
 - d) Endoderm
18. Sinus venosus contributes in formation of
 - a) Left atrium
 - b) Left ventricle
 - c) Right atrium
 - d) Right ventricle
19. XO chromosomal abnormality in human being results in
 - a) Turner's syndrome
 - b) Down's syndrome
 - c) Cri-du-chat syndrome
 - d) Klinefelter syndrome
20. The karyotype of Androgen Insensitivity Syndrome is
 - a) 46XX
 - b) 46XY
 - c) 47XXY
 - d) 45X0

SECTION B
Q. 2
Attempt ANY TWO case scenario questions.
16 marks

- (1) 50 years old male with history of alcohol addiction since very long attended clinic with complains of distended abdomen and hematemesis. On examination, clinician found enlarged dilated veins radiating from umbilicus. (2+2+2+2 marks)
 - (A) What should be the probable diagnosis?
 - (B) What is the cause of blood in vomit?
 - (C) Write important sites of porto-caval anastomosis.
 - (D) Which other common clinical features likely to occur in this patient?
- (2) 52 years old traffic police attended surgical OPD with complain of ulcer on medial side of ankle. On examination, his superficial veins of lower limb were dilated. (2+5+1 marks)
 - (A) What is the most probable clinical condition in above case?
 - (B) Describe venous drainage of lower limb.
 - (C) What is saphena varix?
- (3) 47 years old male with history of smoking for 25 years presents with chest pain radiating to his left arm, sweating and nausea. His blood pressure is low and investigation reveals infarction of left lateral and parts of sternocostal and diaphragmatic surfaces of heart and damage to anterior aspect of interventricular septum. (1+5+2 marks)
 - (A) Which artery is most likely to be affected in above case?
 - (B) Describe course, branches and areas of heart supplied by that artery.
 - (C) What is coronary dominance?

Q. 3 (A) Write short notes on. (ANY TWO)
10 marks

- (1) Obturator nerve
- (2) Ligaments of knee joint
- (3) Soleus muscle

(B) Write short notes on.
10 marks

- (1) Histology of sensory ganglion **OR** Histology of elastic artery
- (2) Histology of liver **OR** Histology of vas deference

(C) Write short note on. (ANY ONE)

4 marks

- (1) Down's syndrome
- (2) Genetic counselling

SECTION C

Q. 4 Long questions. (ANY TWO)

16 marks

- (1) Describe stomach under following heads.
 - (a) Presenting parts
 - (b) Relations
 - (c) Blood supply
 - (d) Lymphatic drainage
- (2) Describe prostate along with applied aspects.
- (3) Describe inguinal canal in detail with applied aspects.

Q. 5 (A) Write short notes on. (ANY TWO)

10 marks

- (1) Broncho-pulmonary segments
- (2) Movements of ribs
- (3) Pericardial sinuses

(B) Write short notes on. (ANY TWO)

10 marks

- (1) Development of inter-ventricular septum
- (2) Development of urinary bladder
- (3) Rotation of midgut

(C) Write short note on.

4 marks

Cadaver as a teacher

OR

Intravenous pyelography