Baleh 35

Reg. No.			
Reg. 110.	 		

MANIPAL UNIVERSITY

MBBS PHASE I STAGE I DEGREE EXAMINATION – SEPTEMBER 2015

SUBJECT: ANATOMY – I (ESSAY)

Wednesday, September 09, 2015

Time: 09:00 - 11:00 Hrs.

Max. Marks: 60

1. With the help of a diagram, describe the histology of thin skin. Name the appendages of the skin.

(4+1 = 5 marks)

- 2. Describe the temporomandibular joint under the following headings:
- 2A. Articular surfaces
- ·2B. Movements possible
- 2C. Muscles producing each of these movements
- 2D. Nerve supply

(1+1+2+1 = 5 marks)

3. Give the attachments, nerve supply and actions of sternocleidomastoid muscle.

(2+1+2 = 5 marks)

4. Enumerate the structures derived from the first pharyngeal arch.

(5 marks)

5. Explain the formation, course and termination of portal vein. Name its tributaries. Mention any two sites of porta-caval anastomosis.

$$(\frac{1}{2}+1+\frac{1}{2}+1+1) = 4$$
 marks)

6. Describe the internal features of right ventricle of heart.

(4 marks)

7. Describe the features of the lateral wall of nasal cavity.

(4 marks)

- 8. A 50-year-old man complained that he had passed blood stained stools for the last 4 years. On proctoscopic examination, the mucous membrane at the level of the anal valves was found to bulging downward, when the patient strained. The swellings were found at 3, 7 and 11 O'clock positions when observed in lithotomy position.
- 8A. What is this condition called?
- 8B. Write a note on the blood supply, nerve supply and lymphatic drainage of the anal canal.

$$(1+1+1+1=4 \text{ marks})$$

9. List the differences between the jejunum and ileum.

(4 marks)

- 10. A 45-year-old lady, suffering from progressive jaundice since 3 months, was admitted to the hospital. On examination, a soft swelling could be felt in the abdomen at the tip of the right 9th costal cartilage.
- 10A. Swelling of which organ was felt at the tip of the right 9th costal cartilage?
- 10B. Mention the parts, relations and blood supply of that organ.

(1+3 = 4 marks)

- 11. A person walking on the roadside in the hot sun, saw an iron rod lying on the road. He picked it but since it was very hot he dropped it immediately.
- 11A. Name the tract in the spinal cord carrying this sensation.
- 11B. Explain the pathway of this sensation from the receptor to the higher centre in the cortex.

(1+3 = 4 marks)

12. Describe the inferior horn of lateral ventricle.

(4 marks)

13. On examination, a patient is found to have bitemporal hemianopia. An enlargement of which gland is likely to compress the optic chiasma and cause this condition? Describe the relations and development of that gland.

$$(1+2+1 = 4 \text{ marks})$$

14. Mention the coverings of testis. Give its arterial supply and lymphatic drainage.

(2+1+1 = 4 marks)

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MANIPAL UNIVERSITY

MBBS PHASE I STAGE I DEGREE EXAMINATION - SEPTEMBER 2015

SUBJECT: ANATOMY – II (MCQs)

Wednesday, September 09, 2015

Time: 11:30 - 12:30 Hrs.

Max. Marks: 120

INSTRUCTIONS

- 1. For each statement, select T (True) or F (False) as your choice.
- 2. Indicate your choice by darkening the appropriate circle in the answer sheet provided.
- 3. Use only HB or 2B pencils to darken the circle.
- 4. Leave blank for Don't Know response.
- 5. Scoring systems is as follows:

For every Correct response

1 mark is awarded

For every Wrong response

0.5 mark is deducted

For every Don't Know response

No mark is deducted

- 6. Indicate your roll number (Registration Number) clearly and correctly.
- 7. Do not write anything in the question paper.
- 8. The true/false statements are numbered 101 to 160 and 201 to 260 (Total 120 statements).
- 9. This question paper contains **04 pages**. Please make sure that the question paper provided to you has all the pages.

About the bones

- 101. All the long bones of body are developed in cartilage
- 102. Periosteum accounts for the growth in thickness of the long bones
- 103. Epiphyseal plate of cartilage is responsible for the growth in length of long bones
- 104. Sesamoid bones are developed in membrane
- 105. Nutrient arteries of long bones are directed towards the growing ends of the bones

About the joints of head and neck

- 106. Median atlanto-axial joint is a plane synovial joint
- 107. Lateral atlanto-axial joints are of condylar type
- 108. Rotatory movements occur in the atlantooccipital joints
- 109. Joint between the two parietal bones is of fibrous type
- 110. Joints between the bodies of vertebrae are of symphyseal type

Regarding the bones of lower limb

- 111. Rectus femoris muscle is attached to the anterior superior iliac spine
- 112. Lesser trochanter of femur gives insertion to iliopsoas tendon
- 113. Tendon of biceps femoris is attached to the upper end of tibia
- 114. Peroneus longus takes origin from fibula
- 115. Talus gives insertion to tibialis anterior

The deltoid muscle

- 116. Arises from clavicle and scapula
- 117. Is supplied by axillary nerve
- 118. Brings about flexion and extension of shoulder joint
- 119. Forms the rotator cuff of shoulder joint
- 120. Covers the insertion of pectoralis major

Levator ani muscle

- 121. Takes origin from ischial tuberosity
- 122. Is inserted into the pubis
- 123. Contributes to the formation of pelvic diaphragm
- 124. Is supplied by pudendal nerve
- 125. Elevates the anal canal

The hamstring muscles

- 126. Take origin from sacrum
- 127. Are inserted to one of the bones of leg

- 128. Flex the hip joint
- 129. Extend the knee joint
- 130. Are supplied by sciatic nerve

During the development

- 131 Connecting stalk develops into umbilical cord
- 132. Allantois forms the vitello-intestinal duct
- 133. Part of yolk sac within the head fold forms the foregut
- 134. Intraembryonic coelom develops in the lateral plate mesoderm
- 135. Urogenital organs develop in the intermediate mesoderm

Branches of basilar artery include

- 136. Posterior inferior cerebellar artery
- 137. Labyrinthine artery
- 138. Anterior spinal artery
- 139. Posterior communicating artery
- 140. Superior cerebellar artery

The brachial artery

- 141. Begins at the lower border of pectoralis major tendon
- 142. Ends at the level of neck of radius
- 143. Is crossed anteriorly by ulnar nerve
- 144. Gives superior ulnar collateral branch
- 145. Is separated from median cubital vein by bicipital aponeurosis

About the arteries of lower limb

- 146. Femoral artery is lateral to femoral vein within the femoral sheath
- 147. Popliteal artery is crossed anteriorly by tibial
- 148. Anterior tibial artery runs lateral to the deep peroneal nerve
- 149. Peroneal artery is a branch of popliteal artery
- 150. Posterior tibial artery divides into medial and lateral plantar branches

About the diaphragm

- 151. Its right crus arises from upper 3 lumbar vertebrae
- 152. Its esophageal opening is present at the level of T8 vertebra
- 153. Vagi nerves pass through its aortic opening
- 154. It is supplied by phrenic nerves
- 155. It is developed from septum transversum

About the larynx

- 156. Epiglottis is made up of hyaline cartilage
- 157. Vestibule is the part of its cavity above the level of vocal folds
- 158. Cricothyroid muscle increases the tension of its vocal fold
- 159. All the muscles are supplied by recurrent laryngeal nerve
- 160. Its mucous membrane is supplied by branches of vagus nerve

About the parotid gland

- 201. Its true capsule is formed by investing layer of deep fascia
- 202. Deepest structure within it is the facial nerve
- 203. Nuclei of its acinar cells are flattened
- 204. It derives its parasympathetic supply from otic ganglion
- 205. Its duct opens into the vestibule of mouth

The rectum

- 206. Begins at the level of S2 vertebral segment
- 207. Is covered by peritoneum throughout its anterior surface
- 208. Is anteriorly separated from prostate by rectovesical pouch
- 209. Has taeniae coli in its wall
- 210. Is supplied by superior mesenteric artery

About the pancreas

- 211. Its head lies in front of inferior vena cava
- 212. Superior mesenteric vessels pass in front of its uncinate process
- 213. Its anterior border gives attachment to the root of transverse mesocolon
- 214. Its tail develops from ventral pancreatic bud
- 215. Posterior aspect of its neck is related to abdominal aorta

The ureter

- 216. Develops from mesonephric duct
- 217. Descends in front of the gonadal artery
- 218. Presents a constriction as it crosses the pelvic brim
- 219. Runs in front of vas deferens
- 220. Is lined by stratified squamous epithelium

The liver

- 221. Has a falciform ligament which develops from dorsal mesogastrium
- 222. Contains the ligamentum venosum which is the obliterated left umbilical vein

- 223. Presents a bare area which is related to the right suprarenal gland
- 224. Has Kupffer's cells in the portal canal
- 225. Is drained by hepatic veins that emerge from porta hepatis

Branches of the posterior cord of brachial plexus include

- 226. Dorsal scapular nerve
- 227. Musculocutaneous nerve
- 228. Axillary nerve
- 229. Thoracodorsal nerve
- 230. Subscapular nerves

About the cerebellum

- 231. Dentate nucleus is the largest intracerebellar nucleus
- 232. Anterior spinocerebellar tract enters the cerebellum through the inferior cerebellar peduncle
- 233. Flocculonodular lobe is concerned with equilibrium
- 234. Its tonsil belongs to paleocerebellum
- 235. Inferior medullary velum forms the floor of lateral dorsal recess of 4th ventricle

About the autonomic nervous system

- 236. Preganglionic sympathetic fibres arise from the lateral horn cells of spinal cord
- 237. Preganglionic parasympathetic fibres from inferior salivary nucleus relay in the otic ganglion
- 238. Postganglionic sympathetic fibres supply the medulla of suprarenal gland
- 239. Preganglionic sympathetic fibres to the cervical sympathetic ganglia arise from upper 2 or 3 thoracic segments of spinal cord
- 240. Pterygopalatine ganglion supplies the lacrimal gland

About the orbit and eyeball

- 241. Superior oblique muscle elevates eyeball
- 242. Ciliary processes of eyeball secrete aqueous humour
- 243. Interference with the drainage of aqueous humour leads to glaucoma
- 244. Medial rectus muscle is supplied by oculomotor nerve
- 245. Contraction of ciliary muscle results in the increased convexity of lens

Thyroid gland

- 246. Develops from the endodermal floor of primitive pharynx
- 247. Is covered by the pretrachial fascia
- 248. Has lateral lobes that lie in front of internal carotid arteries
- 249. Contains follicles lined by cuboidal epithelium
- 250. Is superficially covered by sternothyroid muscle

About the female reproductive system

- 251. Uterine tube is developed from the paramesonephric duct
- 252. Ovary is connected to the broad ligament by mesovarium
- 253. Anteversion is the angle between the body and cervix of uterus
- 254. Internal os is the opening of the uterine tube into the uterus
- 255. Uterus is lined by simple columnar epithelium

The prostate

- 256. Lies medial to levator ani muscle
- 257. Lies in front of the rectum
- 258. Has a base on which the apex of the bladder rests
- 259. Is traversed by urethra into which ejaculatory ducts open
- 260. Has a median lobe which is prone for benign hypertrophy

