BATCH -37, SEPTEMBER 2016

Reg. No.				
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MANIPAL UNIVERSITY

MELAKA MANIPAL MEDICAL COLLEGE (MANIPAL CAMPUS)

MBBS PHASE – I STAGE – I DEGREE EXAMINATION – SEPTEMER 2016

SUBJECT: ANATOMY - PAPER I (ESSAY)

Thursday, September 08, 2016

Time: 9.00 - 11.00 Hrs.

Max. Marks: 60

1. Name the different types of synovial joints based on the shape of their articular surfaces and give one example for each type.

 $(2\frac{1}{2} + 2\frac{1}{2} = 5 \text{ marks})$

- 2. Following a motorbike accident, a 25-year-old man had his upper limb hanging by the side of his trunk due to the dislocation of shoulder joint.
- 2A. What is the commonest direction of dislocation of the shoulder joint?
- 2B. Mention the movements taking place at the shoulder joint.
- 2C. Name any one muscle responsible for each of the movements.

(1+2+2 = 5 marks)

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

(3+1+1 = 5 marks)

4. Describe the formation and fate of corpus luteum

(4+1=5 marks)

5. Describe the formation and termination of inferior vena cava. Name its tributaries.

(1+1+2=4 marks)

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

(4 marks)

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

(4 marks)

- 8. In a 40-year-old patient, the tongue deviated to the right side upon protrusion due to paralysis of its muscles of the same side.
- 8A. Lesion of which cranial nerve results in above condition.
- 8B. Name the muscles of the tongue supplied by it

(1+3=4 marks)

- 9A. Mention the parts of large intestine.
- 9B. Name the major arteries supplying large intestine
- 9C. Mention the embryological origin (development) of large intestine

(2+1+1=4 marks)

10. Describe the formation, course and termination of the bile duct.

(1+1+2=4 marks)

11. Draw a neat labeled diagram of transverse section of midbrain at the level of inferior colliculus
(4 marks)

- 12A. Name the parts of internal capsule.
- 12B. Mention any 2 arteries supplying the internal capsule.
- 12C. Mention any 2 clinical conditions resulting from lesions of internal capsule

(2+1+1=4 marks)

13. Describe the microscopic (histological) structure of the thyroid gland

(4 marks)

- 14A. Mention the coverings of testis
- 14B. Name the artery supplying the testis
- 14C. Mention the venous drainage of the right and left testes

(2+1+1 = 4 marks)

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MELAKA MANIPAL MEDICAL COLLEGE (MANIPAL CAMPUS)

MBBS PHASE – I STAGE – I DEGREE EXAMINATION – SEPTEMBER 2016

SUBJECT: ANATOMY – PAPER II (MTF)

Thursday, September 08, 2016

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.

In the human body

- 101. Blood vessels are lined by simple squamous epithelium
- 102. Medium sized artery has longitudinally running smooth muscle fibres in its tunica adventitia
- 103. Ganglion contains cell bodies of neurons
- 104. Connective tissue sheath covering the nerve is called epineurium
- 105. Skeletal muscle fibre is branched

About the foramina/openings of the skull

- 106. Optic canal transmits ophthalmic artery
- 107. Carotid canal transmits the external carotid artery
- 108. Foramen rotundum transmits the middle meningeal artery
- 109. Foramen ovale transmits mandibular nerve
- 110. Foramen magnum transmits vertebral arteries

About the temporomandibular joint

- 111. Head of the mandible is one of its articular surfaces
- 112. It has an articular disc
- 113. It is supplied by auriculotemporal nerve
- 114. Lateral pterygoid muscle elevates the mandible through this joint
- 115. Sphenomandibular ligament is on the lateral aspect of this joint

Muscles supplied by the tibial nerve include

- 116. Peroneus brevis
- 117. Tibialis posterior
- 118. Flexor digitorum longus
- 119. Peroneus tertius
- 120. Soleus

About the knee joint

- 121. Hamstring muscles flex the knee joint
- 122. It is supplied by common peroneal nerve
- 123. It is unlocked by popliteus muscle
- 124. Menisci are present within its capsule
- 125. It is formed between femur, tibia and fibula

Muscles supplied by radial nerve include

- 126. Triceps brachii
- 127. Coracobrachialis
- 128. Flexor carpi radialis
- 129. Brachioradialis
- 130. Flexor carpi ulnaris

The derivatives of the neural crest include

- 131. Dermis of the skin
- 132. Schwann cells
- 133. Suprarenal cortex
- 134. Grey matter of spinal cord
- 135. Neurons of sympathetic ganglia

Regarding the larynx

- 136. All of its muscles are supplied by the pharyngeal plexus of nerves
- 137. Space between its vocal folds is called rima glottidis
- 138. Its thyroid cartilage is of hyaline type
- 139. Its infraglottic part is supplied by recurrent laryngeal nerve
- 140. Its vocal cord is tensed by the cricothyroid muscle

Branches of the external carotid artery include

- 141. Inferior thyroid artery
- 142. Lingual artery
- 143. Occipital artery
- 144. Middle meningeal artery
- 145. Maxillary artery

Tributaries of portal vein include

- 146. Splenic vein
- 147. Superior mesenteric vein
- 148. Left gastric vein
- 149. Renal vein
- 150. Azygos vein

Regarding the pharynx

- 151. Palatine tonsil is present in the nasopharynx
- 152. Its constrictors are supplied by fibers of cranial part of accessary nerve
- 153. Auditory tube communicates it with the middle ear cavity
- 154. Pyriform fossa is in the laryngopharynx
- 155. It is partly lined by ciliated columnar epithelium

Regarding the pleura

- 156. Diaphragmatic pleura is supplied by the phrenic nerve
- 157. Cervical pleura extends above the level of first rib
- 158. Visceral pleura is supplied by autonomic nerves
- 159. Parietal pleura is pain insensitive
- 160. Presence of air in the pleural cavity is called pneumothorax

The esophagus

- 201. Begins at the level of lower border of thyroid cartilage
- 202. Pierces the diaphragm at the level of 12th thoracic vertebra
- 203. Contains mucous glands in its submucosa
- 204. Lies in front of the trachea
- 205. Passes through the superior mediastinum

Structures forming stomach bed include

- 206. Pancreas
- 207. Right kidney
- 208. Splenic artery
- 209. Transverse mesocolon
- 210. Right suprarenal gland

About the duodenum

- 211. Its first part is related to the liver
- 212. It has Brunner's glands in its wall
- 213. Its third part is crossed by the superior mesenteric artery
- 214. Its fourth part continues as the jejunum
- 215. It develops from hindgut

About the spleen

- 216. It is the largest lymphoid organ
- 217. Its visceral surface is related to the left colic flexure
- 218. Its inferior border gives attachment to gastrosplenic ligament
- 219. It is related to the diaphragm
- 220. Normal spleen is palpable

Regarding the parts of urinary system

- 221. Left kidney lies behind the pancreas
- 222. Abdominal part of the ureter lies in front of psoas major muscle
- 223. Prostatic urethra has the openings of ejaculatory ducts
- 224. Neck of the bladder rests on the prostate gland in males
- 225. Ureter develops from ureteric bud

Superior cerebellar peduncle contains

- 226. Ventral (anterior) spinocerebellar tract
- 227. Cuneocerebellar tract
- 228. Dentatothalamic fibres
- 229. Olivocerebellar fibres
- 230. Pontocerebellar fibres

Regarding the glossopharyngeal nerve

- 231. It carries secretomotor fibers to submandibular salivary gland
- 232. It passes through the jugular foramen
- 233. It carries general sensations from the posterior 1/3rd of the tongue
- 234. It supplies carotid sinus
- 235. Its rootlets are attached to the pontomedullary junction

About the corpus callosum

- 236. It contains commissural fibers
- 237. Fibers of its splenium form the forceps major
- 238. Its posterior end is called genu
- 239. It forms the roof of central part of lateral ventricle
- 240. It lies below the falx cerebelli

The superolateral surface of the cerebral hemisphere has

- 241. Precentral gyrus
- 242. Cingulate gyrus
- 243. Superior temporal gyrus
- 244. Parahippocampal gyrus
- 245. Lingual gyrus

About the pancreas

- 246. Its head is related to the duodenum
- 247. Upper border of its body is related to the splenic artery
- 248. Its tail is in the lienorenal ligament
- 249. It lies in front of the aorta
- 250. Surgical removal of its tail may lead to diabetes mellitus

Structures in the spermatic cord include

- 251. Vas deferens
- 252. Ilioinguinal nerve
- 253. Testicular artery
- 254. Femoral branch of genitofemoral nerve
- 255. Pampiniform plexus of veins

About the uterus

- 256. It makes an angle of antivertion with the vagina
- 257. Its fundus is the common site of fertilization
- 258. It is supplied by uterine artery
- 259. Its cervix is related to the ureters
- 260. Its posterior surface is related to rectouterine pouch