

***MBCHB ASSORTED ESSAY REVIEW QUESTIONS  
(Adapted from Departmental past papers)***



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***CLASS OF 2016/2017***

***"WHAT LIES BEHIND US AND WHAT LIES  
AHEAD OF US ARE TINY MATTERS AS  
COMPARED TO WHAT LIVES WITHIN US ."***

## **CHAPTER1:ESSAYS FROM ANAT DEPARTMENT PAST PAPERS**

- 1. Describe the light microscopic features and development of the thyroid gland.(10 marks)*
- 2. Illustrate the blood supply and innervation of the scalp.(10 marks)*
- 3. Describe the sensory innervation of the face.(5 marks)*
- 4. Describe the course,branches and distribution of the right coronary artery.Add notes on coronary dominance(10 marks)*
- 5. Describe the venous drainage of esophagus and state its clinical relevance.(5 marks)*
- 6. Outline the process of lung maturation(5 marks)*
- 7. A patient has an embolus in the left middle cerebral artery. State the cortical functional areas supplied by this artery and the effects of loss of function in these areas(10 marks)*
- 8. Describe the pathway of vibration sensation from the left big toe to the cerebral cortex.(10 marks)*
- 9. Describe the blood supply to the head of femur and state its clinical relevance.(5 marks)*
- 10. Describe the origin,course and distribution of the*

*common peroneal nerve and state the clinical effects of injury of this nerve at the neck of fibula.(10 marks)*

- 11. With a well labelled diagram(s), illustrate the sensory innervation of the hand.(5 marks)*
- 12. Describe the parts and blood supply of fallopian tubes.(5 marks)*
- 13. Describe the relations of the rectum.(5 marks)*
- 14. Describe the light microscopic features of the adrenal cortex.(5 marks)*
- 15. Outline the development of the stomach.(5 marks)*
- 16. Describe the formation,circulation and drainage of cerebrospinal fluid . Add notes on congenital malformations of the ventricular system.(10 marks)*
- 17. Describe the development and congenital anomalies of spinal cord.(10 marks)*
- 18. Describe the histological organization of the cornea.(5 marks)*
- 19. Describe the extents of the nasopharynx and state structures on the lateral wall of the nasopharynx.(5 marks)*

20. *Outline the relations and blood supply of the thyroid gland(10 marks)*
21. *Describe the recesses and innervation of the pleura.(6 marks)*
22. *Describe the boundaries and clinical relevance of triangle of safety.(4 marks)*
23. *Describe the development and congenital malformations of the trachea.(6 marks)*
24. *Outline the structures which constitute the thin and thick blood air barriers(4 marks)*
25. *Describe the boundaries and give one clinical relevance for each one of the following: inguinal canal, inguinal triangle of Hasselbach(10 marks)*
26. *Describe the anatomy of the spleen under the following subheadings: peritoneal attachments and contents of each.(8 marks). Clinical relevance(2 marks)*
27. *Outline the origin, course and distribution of radial the nerve.(7 marks)*
28. *Name the bones that form the margins of the orbit*

*,indicating close anatomical features associated with each margin.(5 marks)*

- 29. Outline the flow of tears.(5 marks)*
- 30. For the following muscles, indicate the origin, insertion, innervation and action.: inferior oblique, scalenus anterior, sternocleidomastoid, omohyoid, stylohyoid.(10 marks)*
- 31. Describe the origin, course and distribution of ophthalmic nerve.(5 marks)*
- 32. Describe the lymphatic drainage of the face( marks)*
- 33. Describe the organization of the investing layer of the deep cervical fascia.(5 marks)*
- 34. Using a diagram, illustrate the cutaneous nerves at the nerve point in the neck region giving their roots and areas of innervation.(5 marks)*
- 35. Describe the contents and boundaries of submandibular triangle.(5 marks)*
- 36. Lists the contents of the carotid triangle.(5 marks)*
- 37. Describe the origin,course and distribution of vertebral arteries.(5 marks)*

38. *Illustrate the formation and division of ansa cervicalis.(5 marks)*
39. *Illustrate the subvalvular apparatus.(5 marks)*
40. *Describe the danger area of the face citing clinical relevance.(5 marks)*
41. *Name the general neural modalities(functional components) giving an example of each and the function it performs.(5 marks)*
42. *Describe the division and distribution pattern of the subclavian artery.(5 marks)*
43. *Describe the histological organization of the cornea.(5 marks)*
44. *Describe the innervation of the parotid gland.(5 marks)*
45. *List the derivatives of the 1st pharyngeal arch.(5 marks)*
46. *Describe the histology of the eyelid.(5 marks)*
47. *Describe the pain pathway following a pinch on the left chin.(5 marks)*
48. *With the aid of a diagram illustrate the arterial circle of Willis and state its importance.(6marks)*

49. *With the aid of a diagram ,describe the formation and branches of brachial plexus..(8 marks)*

***REST SPOT***



***PRAY ALWAYS AND NEVER GIVE UP!!!!***

50. *Give an account of the osteofascial compartment of the leg.(7 marks)*
51. *Describe the stability factors of the ankle joint.(5 marks)*
52. *Outline the medial relations of the parotid gland.(8*

*marks)*

53. *Describe the development of pituitary gland.(6 marks)*
54. *Describe the innervation of the iris.(6 marks )*
55. *Describe fetal circulation(10 marks)*
56. *Describe the lymphatic drainage of the breast.(5 marks)*
57. *With the aid of a diagram ,illustrate the components of the conducting system of the heart.(5 marks)*
58. *Outline the posterior relations of the stomach.(8 marks)*
59. *Describe the blood supply of abdominal large gut.(6marks)*
60. *Describe the development of the urinary bladder.(6 marks)*
61. *Describe the anatomical organization of the glenohumeral joint under the following subheadings: relations(5 marks),stability factors(4 marks),blood supply and innervation(3 marks),applied anatomy.(3 marks)*
62. *Regarding the breast, state the following.: extents(5 marks),lymphatic drainage (3 marks),innervation(2 marks),microscopic features of a lactating mammary*



*gland(5 marks).*

63. *Regarding the superficial inguinal lymph nodes, write: organization(4 marks),region they drain(5 marks),clinical significance(1 mark)*
64. *Give a brief description of the anatomy of the hip joint under the following subheadings: stability factors(5 marks),posterior relations(5 marks)*
65. *Give an account of early embryonic development under the following subheadings: The main changes and events during the 1st week of development(5 marks)*
66. *Major features of the 3rd week of development.(5 marks)*
67. *A four year old swallows a coin and an x-ray shows its stuck in the esophagus . Name the sites of narrowing of the esophagus where the coin may get trapped.(2 marks)Describe the blood supply of the esophagus citing its clinical relevance.(7 marks)*
68. *Outline the origin,course and distribution of the left coronary artery.( 6 marks)*
69. *During vaginal delivery of a fetus ,the shoulder remains*

- stuck after delivery of the head. The baby sustains brachial plexus injury . Name the brachial plexus trunk likely to have been injured and the clinical features associated with the injury.(4 marks)*
70. *Outline the lymphatic drainage of the breast.(6 marks)*
71. *Describe the modifications of the wall of the respiratory tree from bronchi to bronchioles ad the clinical significance.(6 marks)*
72. *Outline the autonomic innervation of the heart and its clinical significance.(4 marks)*
73. *Describe the histological organization of skeletal muscle and indicate the relevance of this in injury and repair mechanism of this tissue.(8 marks)*
74. *Describe the blood supply of the nasal septum and indicate surgical relevane of this(9 marks)*
75. *Describe the development of the interventricular septum of the heart and the surgical relevance of this(8 marks)*
76. *Desribe the venous drainage of upper limb and its*

*surgical relevance(7 marks)*

77. *Describe the formation, circulation and absorption of csf and indicate common sites of obstruction.(9 marks)*
78. *Describe the formation , relations, and distribution f the sciatic nerve.(9 marks)*
79. *Describe the arterial blood supply of the heart and the meaning of left coronary dominance.(10 marks)*
80. *Describe with a labelled diagram the functional unit of the lung.(6 marks)*
81. *Describe the key features of each of the four stages of fetal lung development.(4 marks)*
82. *Draw a cross sectional diagram showing the formation of the rectus sheath at the level of umbilicus(4 marks)*
83. *A 20 year old actuarial science student who had acute appendicitis undergoes appendicectomy. The surgeon makes a transverse incision in the right iliac fossa. Name the structures traversed during this incision(4 marks)*
84. *Outline the boundaries and contents of the inguinal canal in the male. Differentiate between direct and indirect*

*inguinal hernia.(12 marks)*

85. *Write notes on course and distribution of the radial nerve in the arm.(5 marks)*
86. *Write notes on the boundaries and contents of the popliteal fossa.(5 marks)*
87. *Illustrate the cross-sectional anatomy of the spinal cord at the level of T6 and indicate the major tracts. (10 marks)*
88. *Describe the histological organization of the cheek(5 marks)*
89. *Describe the innervation of the larynx.(5 marks)*
90. *Describe the anatomical structure and blood supply of the lateral nasal wall.(10 marks)*
91. *Outline the development of the hyoid bone.(5 marks)*
92. *Write short notes on the venous drainage and lymphatics of the upper limb. Add notes on related clinical aspects(20 marks)*
93. *Give a brief account on the formation, course, important relations and distribution of the ulnar nerve. Add notes on*

- possible causes and effects of injury at various levels.(20 marks)*
94. *Describe the origin, course and distribution of facial nerve. ( 7 marks)*
95. *Describe the development and congenital anomalies of the palate.(7 marks)*
96. *Describe the partitioning of the primitive atria in the development of the heart.(6 marks)*
97. *Describe the course and areas drained by the thoracic duct.(7 marks)*
98. *Outline the structures found in the walls of 3rd ventricle(6 marks)*
99. *Using a well labelled diagram, illustrate the structures found on the floor of fourth ventricle.(5 marks)*
100. *Describe the pathway of fine touch from the lower lip. (7 marks)*
101. *Describe the development of the spinal cord (7 marks)*
102. *Describe the relations and arterial blood supply of the head of the pancreas (8 marks)*

103. *Describe the relations and venous drainage of the rectum in males.(7 marks)*
104. *Outline the embryonic sources of thoracic diaphragm , their derivatives and two congenital anomalies (5 marks)*
105. *Describe the stability factors of the knee joint. (8 marks)*
106. *Outline the boundaries and contents of carpal tunnel. (6 marks)*
107. *Outline the development of the hand and its congenital anomalies(10 marks)*
108. *A 12-year old girl presents with an anterior neck swelling that elevates on sticking out the tongue. Name the likely structure and state the anatomical basis for the elevation .( 3 marks)*
109. *Outline the arterial blood supply of the thyroid gland ,state two nerves related to these arteries and the clinical significance of this relationship.(8 marks)*
110. *Outline the development of the tongue(5 marks)*
111. *Describe the light microscopic features of parotid gland.( 4 marks)*

*112. A 40-year old man presents to the clinic with hearing loss and tinnitus in the right ear. He also has right sided weakness of the face. He is diagnosed to have a mass in the brain. State the most likely site of the mass and outline the anatomical basis of these presentations(4 marks).*

*113. Describe the origin, course and termination of corticospinal tract.(8 marks)*

*114. Outline the development of the cerebellum(4 marks)*

**REST SPOT**



**DID YOU KNOW COWS HAVE A GLUTEUS LATERALIS???**

**CHAPTER 2: SHUFFLED ESSAYS FROM THE BSC DEMO'S  
AND DR BEDA**

115. *Describe the development of the femur(7 marks)*
116. *List the signalling centres in limb development and the function of each(6 marks)*
117. *List the key events skeletal muscle histogenesis.(5 marks)*
118. *Differentiate between upper and lower limb development.*
119. *List the parts and derivatives of intraembryonic mesoderm.*
120. *State the functions,fate and clinical relevance of the notochord.*
121. *Describe transverse and sagittal embryonic folding and list the results of each the results of each.*
122. *Describe the development of the breast and congenital anomalies associated.*
123. *List the embryonic sources of skin and their derivatives.  
Add notes on associated congenital anomalies and their*



*embryological basis.*

124. *Describe primary and secondary neurulation.*
125. *List the secondary brain vesicles and their derivatives.*
126. *Describe the differentiation of the neural tube to form the spinal cord.*
127. *Write down short notes on the course of median nerve in the upper limb, points of entrapments and their clinical presentation.*
128. *Describe the boundaries and contents of: carpal tunnel, Guyons canal, cubital fossa, popliteal fossa, midpalmar space, space of parona, tarsal tunnel.*
129. *Write down short notes on the development of the face, highlighting 3 congenital malformations and their embryological basis.*
130. *With the help of a diagram, illustrate pathway of itch from the big toe to the cortex.*
131. *List the epithelial types in the buccal cavity and their locations.*
132. *With the help of a diagram illustrate the pathway of*

- pain from the left cheek to the cortex.*
- 133. Write down short notes on histological organization of cerebrum.*
  - 134. Describe the histological organization of the retina.*
  - 135. Write down short notes on inguinal lymph nodes*
  - 136. Write short notes on the autonomic innervation to: lacrimal gland, parotid gland, sublingual and submandibular glands.*
  - 137. Describe the boundaries and clinical significance of triangle of auscultation.*
  - 138. With the aid of a diagram illustrate the surface of left tibial plateau.*
  - 139. Write short notes of great saphenous vein. (surface landmarks, tributaries, communication and applied anatomy)*
  - 140. Define the relations and openings of the tympanic cavity.*
  - 141. Illustrate the boundaries and clinical significance of safety triangle*
  - 142. Describe the innervation of the heart citing clinical*

*relevance.*

*143. Describe the relations, drainage and clinicals of maxillary sinus.*

*144. Describe the innervation of the heart and pleura, citing clinical relevance.*

*145. Outline the unique features and relations of first rib.*

*146. Write short notes on cervical sympathetic chain citing clinical relevance.*

*147. Write down short notes on the development of the lungs.*

*148. Describe the course of the right phrenic in the thorax.*

*149. Explain why pain from the diaphragm radiates to the next region.*

*150. Illustrate the flow of blood in the heart.*

*151. Describe the development of ribs, citing two congenital anomalies.*

*152. Illustrate the lymphatic drainage of the lung.*

*153. Describe the relations of the thyroid gland.*

*154. Give an account of the name and location of the*

*nuclei, preganglionic nerve, relay ganglia and one final distribution of cranial GVE. (20 marks)*

**REST SPOT**



ABOVE IT ALL, DONT LOSE FOCUS OF THE GREAT DOCTORS YOU ARE ALL DESTINED TO BECOME .THE WHOLE WORLD IS COUNTING ON YOU, YOU ARE A BEACON OF HOPE AND LIFE, FOR IN YOUR HANDS, NAY THE POWER GIVEN BY GOD, TO IMPART HEALTH AND WELLNESS .GOD BLESS YOU DOCTORS!

- 155. Outline the classes of cells of the adenohypophysis.  
Indicate the secretions of each cell mentioned.(15 marks)*
- 156. Describe the features of lingual mucosa.*
- 157. Describe the support structures of the tongue.*
- 158. Describe the innervation of the tongue.*
- 159. Describe the pathway of taste sensation(20 marks)*
- 160. Describe the course,branches and distribution of  
mandibular nerve.*
- 161. Describe the relations,arterial blood supply and clinical  
relevance of palatine tonsil.*
- 162. Describe the results of fertiliation.*
- 163. Describe the motor innervation to the palate.*
- 164. Describe the organization of structures posterior to the  
pharynx. Give clinical relevance of retropharyngeal space.*
- 165. Describe the histological organization of respiratory  
epithelium.*
- 166. Outline the extents,blood supply and innervation of  
larynx.*

167. *Describe the drainage into the nasal meati.*
168. *Write short notes on Waldeyer's ring.*
169. *Describe the structures traversing the substance of parotid gland.*
170. *Describe the formation, course, tributaries and termination of internal jugular vein.*
171. *Outline the boundaries and relations of the middle ear cavity.*
172. *Describe the borders of the orbital margins and walls, adding notes on relations of the orbit.*
173. *Describe the formation, branches and distribution of the cervical plexus.*
174. *Describe the unique features of the following vertebrae: cervical, thoracic, lumbar.*
175. *Discuss movements of cervical spine.*
176. *What are the stability factors of atlantooccipital and atlanto-axial joints.*
177. *Outline the organization and pattern of drainage of cervical lymphatics.*

178. *Outline the boundaries and contents of anterior neck triangles associated with the inferior border of the mandible.*
179. *State the name, location and functional components of nuclei of hypoglossal. Adding notes on its branches within head and neck.*
180. *Describe the location, innervation and functions of carotid body and carotid sinus.*
181. *Outline the extents and attachments of the carotid sheath. Add notes on contents of the same in the cervical and thoracic region(12 marks)*
182. *Describe the innervation and blood supply of thoracic diaphragm. Adding notes on the vertebral levels and all the structures transmitted through it.*
183. *Describe the origin, course and termination of descending thoracic aorta.*
184. *Describe formation and distribution of thoracic sympathetic chain. Adding notes on the basis of four clinical presentations of Horner's syndrome.*
185. *Describe the boundaries of thoracic inlet.*

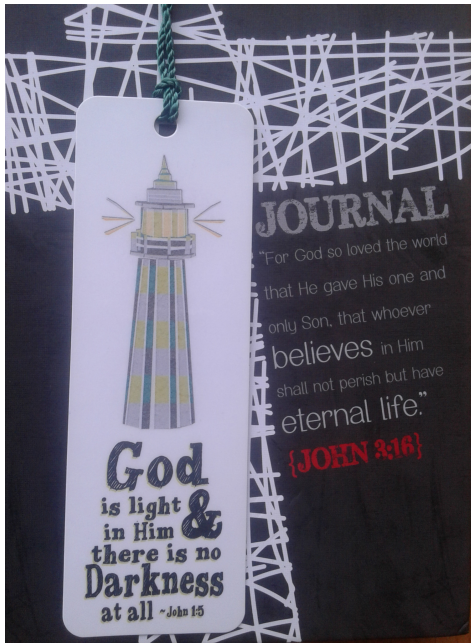
186. *Describe the origin, course and distribution of left phrenic nerve.*
187. *Describe the respiratory mechanisms and movements of thoracic wall during expiration and inspiration. Mention one clinical relevance of this.*
188. *Describe the boundaries and contents of superior and inferior mediastinum.*
189. *Discuss the relevance of the T4/T5 junction. (20 marks)*
190. *Discuss the extents, blood supply, lymphatic drainage and constrictions of the esophagus.*
191. *Describe the histological organization of the heart wall. Adding notes on the differences between elastic, muscular and hybrid (citing examples).*
192. *Describe the formation, course, drainage and termination of azygos.*

*All the very best as God guides you through as you prepare for your mid semester essay exams.*



*I have faith and confidence in you all. You have all it takes to make it through. Give it your best and trust in God even as He orchestrates you to be the great Doctors He created you to be.*

*With*



*blessings!!!*