

**MANIPAL UNIVERSITY****FIRST MBBS DEGREE EXAMINATION – JUNE/JULY 2016****SUBJECT: ANATOMY: PAPER – I (ESSAY)**

Tuesday, June 28, 2016

Time: 10:20 – 13:00 Hrs.

Maximum Marks: 80

- ✍ **All questions are compulsory.**  
 ✍ **Illustrate your answers with diagrams and flow charts wherever appropriate.**

1. An adult male sustained a cut injury over his right upper lip while shaving for which he was treated symptomatically. However, two days later, he developed fever, headache, and dilated pupils with double vision. A clinical diagnosis of septic cavernous venous sinus thrombosis was made and he was treated accordingly.
- 1A. Name the routes through which an infection from the upper lip reached the cavernous sinus.  
 1B. Describe the location, relations and communications of the cavernous sinus.  
 1C. Give the reasons for the dilated pupils in this case.

(2+7+1 = 10 marks)

2. **Describe the shoulder joint under the following headings:**

- 2A. Classification  
 2B. Relations  
 2C. Movements and muscles producing them

(1+4+5 = 10 marks)

3. **Write short notes on:**

- 3A. Ansa cervicalis  
 3B. Describe the ligaments of the temporomandibular joint  
 3C. Nerve supply of the parotid gland  
 3D. Formation and circulation of cerebrospinal fluid (CSF)  
 3E. Labelled diagram of a section of midbrain at the superior colliculus level  
 3F. Superior cerebellar peduncle  
 3G. Parts and fibers of corpus callosum  
 3H. Inferior horn of lateral ventricle  
 3I. Clavipectoral fascia  
 3J. Supinator muscle  
 3K. Transitional epithelium  
 3L. Microscopic features of sympathetic ganglion  
 3M. Derivatives of intra-embryonic mesoderm  
 3N. Decidua  
 3O. Autosomal dominant inheritance

(4 marks × 15 = 60 marks)



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**MANIPAL UNIVERSITY**  
**FIRST MBBS DEGREE EXAMINATION – JUNE/JULY 2016**  
**SUBJECT: ANATOMY: PAPER – II (ESSAY)**

Wednesday, June 29, 2016

Time: 10:20 – 13:00 Hours

Maximum Marks: 80

- ✍ **All questions are compulsory. Write brief, clear, relevant and legible answers.**  
✍ **Illustrate your answers with diagrams and flow charts wherever appropriate.**

1. A patient is seen in an emergency department with complaints of fever, difficulty in breathing and chest pain. On clinical examination it was confirmed as an infection of apical bronchopulmonary segment of the right lung.
- 1A. Define a bronchopulmonary segment.  
1B. Draw neat labelled diagrams showing the bronchopulmonary segments of both lungs.  
1C. Discuss the clinical anatomy of these segments.

(2+6+2 = 10 marks)

2. **Describe the stomach under:**

- 2A. Parts  
2B. Stomach bed  
2C. Arterial supply and lymphatic drainage  
2D. Applied anatomy

(1+3+4+2 = 10 marks)

3. **Short Answers:**

- 3A. Spermatic cord  
3B. Diaphragm: Major openings and nerve supply  
3C. Hepato-renal pouch: Boundaries and applied anatomy  
3D. Ischioanal fossa: boundaries and contents  
3E. Medial meniscus and its applied anatomy  
3F. Relations of piriformis muscle  
3G. Dorsalis pedis artery  
3H. Obturator nerve: Origin, course and distribution  
3I. Arch of aorta: Relations and development  
3J. Coronary sinus: Location, tributaries and termination  
3K. Microscopic structure of kidney  
3L. Microscopic structure of graafian follicle  
3M. Development of interatrial septum and its anomalies  
3N. Development of pancreas and anomalies  
3O. Blood supply of long bone

(4 marks × 15 = 60 marks)

