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## MANIPAL UNIVERSITY

### FIRST MBBS DEGREE EXAMINATION – MAY/JUNE 2013

#### SUBJECT: ANATOMY: PAPER – I (ESSAY) (OLD REGULATION)

Tuesday, May 28, 2013

Time: 10:20 – 13:00 Hrs.

Maximum Marks: 40

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

1. Describe the relations, blood supply and development of palatine tonsil. Add a note on its microscopic structure.

(2+3+1+2 = 8 marks)

2. Classify the white fibres of the cerebrum. Describe the parts, fibre components and applied aspects of internal capsule.

(2+1+4+1 = 8 marks)

3. Write short notes on:

- 3A. Rotator cuff
- 3B. Superficial palmar arch
- 3C. First carpometacarpal joint
- 3D. Implantation
- 3E. Barr body
- 3F. External jugular vein
- 3G. Interior of larynx
- 3H. Parotid duct

(3×8 = 24 marks)



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SUBJECT: ANATOMY: PAPER – II (ESSAY)  
(OLD REGULATION)

Wednesday, May 29, 2013

Time: 10:20 – 13:00 Hrs

Maximum Marks: 40

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

1. Describe the relations, internal features, blood supply and development of the second part of duodenum.

(3+2+2+1 = 8 marks)

2. Describe the arterial supply and venous drainage of heart. Add a note on applied aspects.

(3+3+2 = 8 marks)

3. Write short notes on:

3A. Urogenital diaphragm

3B. Spermatic cord

3C. Ligaments of liver

3D. Structure of typical synovial joint

3E. Microscopic structure of urinary bladder

3F. Iliotibial tract

3G. Saphenous nerve

3H. Tendocalcaneus

(3×8 = 24 marks)





# MANIPAL UNIVERSITY

## FIRST MBBS DEGREE EXAMINATION – MAY/JUNE 2013

### SUBJECT: ANATOMY: PAPER – I (ESSAY) (NEW REGULATION)

Tuesday, May 28, 2013

Time: 10:20 – 13:00 Hrs.

Maximum Marks: 80

✍ **All questions are compulsory.**

✍ **Illustrate your answers with diagrams and flow charts wherever appropriate.**

1. A 45 year old male was brought to the hospital with a history of 'something getting stuck in the throat' while eating fish. It was extremely painful and the pain increased during the movements of the thyroid cartilage especially sideways. The physician concluded that a fish bone was stuck in the lower part of the pharynx. Based on the knowledge of Anatomy, answer the following questions:

- 1A. State the precise location and the boundaries of the area where the fish bone would have been stuck.
- 1B. Name the neurovascular structures which are closely related to that area and may be damaged during the removal of the fish bone.
- 1C. Name all the muscles of the pharynx.
- 1D. Describe in detail the nerve supply of the pharynx.

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

2. Describe the sulci, gyri, functional areas and blood supply of the superolateral surface of the cerebrum.

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

3. **Write Short answers on:**

- 3A. Enumerate the muscles of the larynx and give their actions and nerve supply
- 3B. Describe the frontal air sinus
- 3C. Carotid sheath
- 3D. Draw a neat labeled diagram of cross section of the midbrain at the level of inferior colliculus
- 3E. Describe the intracranial part of the trigeminal nerve
- 3F. Cephalic vein of the upper limb
- 3G. Explain the origin, course, branches and applied anatomy of the radial nerve in the arm
- 3H. Explain the boundaries, contents and applied importance of the carpal tunnel
- 3I. Axillary lymph nodes
- 3J. Midpalmar space
- 3K. Describe the histology of the lymph node
- 3L. List the differences in the microscopic structure of different types of cartilages
- 3M. Describe the formation of the functionally active chorionic villi
- 3N. Describe the formation and fate of the neural tube
- 3O. Describe the sex linked inheritance with examples

(4×15 = 60 marks)





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(NEW REGULATION)

Wednesday, May 29, 2013

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 15 year old boy was admitted to the emergency unit of hospital with severe pain in the right iliac fossa, vomiting and high temperature. On examination, maximum tenderness was at Mc Burney's point and the abdominal muscles were contracted and rigid.

Based on the anatomy of this region answer the following questions:

- 1A. Name the organ involved and give your possible diagnosis of the condition.  
1B. Classify the various positions of the organ.  
1C. Describe its lymphatic drainage and blood supply.  
1D. Define Mc Burney's point

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

2. **Describe the diaphragm under the following headings:**

- 2A. Attachments  
2B. Major and minor openings  
2C. Innervation

(3+5+2 = 10 marks)

3. **Write short notes on:**

- 3A. Perineal body  
3B. Fallopian tube- Gross features and blood supply  
3C. Locking and unlocking of knee joint  
3D. Adductor canal  
3E. Microscopic structure of cortex of the ovary  
3F. Development and congenital anomalies of uterus  
3G. Hepatorenal pouch  
3H. Linea alba  
3I. Hilum of right lung  
3J. Coronary sulcus  
3K. Femoral hernia  
3L. Gluteus medius muscle  
3M. Microscopic structure of oesophagus  
3N. Development and congenital anomalies of arch of aorta  
3O. Types of anastomoses

(4×15 = 60 marks)

