

**MANIPAL ACADEMY OF HIGHER EDUCATION**  
**FIRST MBBS DEGREE EXAMINATION – MAY/JUNE 2018**  
**SUBJECT: ANATOMY: PAPER – I (ESSAY)**

Tuesday, May 29, 2018

Time: 10:20 – 13:00 Hrs.

Maximum Marks: 80

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✍ **All questions are compulsory.**

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

1. A 25-year-old male was brought to the hospital following a road traffic accident and was diagnosed with fracture of the shaft of the right humerus. Clinical examination revealed loss of sensation on the lateral part of the dorsum of the hand and inability to extend his wrist. Based on your anatomy knowledge answer the following:

- 1A. Name the structure damaged that resulted in the above said symptoms
- 1B. Describe the origin of the affected structure
- 1C. Course and distribution of the affected structure

(1+2+7 = 10 marks)

2. Describe the lateral wall of the nose under the following headings:

- 2A. Bones contributing
- 2B. Middle meatus
- 2C. Arterial supply
- 2D. Applied anatomy

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

3. **Write short answers:**

- 3A. Arterial supply of the thyroid gland
- 3B. Otic ganglion
- 3C. Vocal cords
- 3D. Cerebral arterial circle
- 3E. Inferior horn of the lateral ventricle
- 3F. Dentate nucleus
- 3G. Lumbar puncture
- 3H. Broca's area
- 3I. Superficial palmar arch
- 3J. Deltoid muscle
- 3K. Microscopic structure of the lymph node
- 3L. Microscopic structure of cardiac muscle
- 3M. Implantation
- 3N. Formation and fate of the yolk sac
- 3O. Amniocentesis and its importance

(4 marks × 15 = 60 marks)



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**FIRST MBBS DEGREE EXAMINATION – MAY/JUNE 2018**  
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Wednesday, May 30, 2018

Time: 10:20 – 13:00 Hours

Maximum Marks: 80

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

1. A 35 year old male patient presented at the medical OPD with dull aching pain in the epigastric region often after eating, indigestion and episodes of nausea. He also gave history of loss of appetite, loss of body weight. After proper examination and investigations he was diagnosed to have gastric ulcer.

Answer the following questions:

- 1A. Why gastric pain is felt in the epigastric region?  
1B. Where does gastric ulcer typically occur and give any two reasons for it?  
1C. Describe the parts and relations of stomach  
1D. Add a note on the arterial supply and lymphatic drainage of stomach.

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

2. Describe the sciatic nerve under: origin & root value, course & relations, distribution and applied anatomy.

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

3. **Write short notes on:**

- 3A. Bronchopulmonary segments of the left lung.  
3B. Vermiform appendix - positions and blood supply.  
3C. Microscopic structure of pituitary gland.  
3D. Fallopian tube- parts and applied aspects.  
3E. Coronary sinus.  
3F. Development of kidney & its major anomalies.  
3G. Prostatic part of urethra.  
3H. Sartorius muscle.  
3I. Thoracic duct.  
3J. Draw a neat labeled diagram showing cutaneous nerve supply of dorsum of the foot.  
3K. Pleural recesses.  
3L. Types of epiphysis.  
3M. Inguinal rings.  
3N. Microscopic structure of duodenum.  
3O. Development of interatrial septum and its defects.

(4 marks × 15 = 60 marks)

