

11/02/2026
Aug - 2026

**BLDE (DEEMED TO BE UNIVERSITY)
POST GRADUATE DEGREE EXAMINATION**

[Time: 3 Hours]

[Max. Marks: 100]

MD ANATOMY – PAPER - I

QP CODE: 5001

Your answer should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary.

Each answer should be written on new page only.

Write Question No. in the middle of the margin.

Long Essay

2x20=40 Marks

1. A 45-year-old woman presents with a gradually enlarging thyroid swelling associated with hoarseness of voice. CT scan reveals a malignant lesion involving the left lobe of the thyroid gland.
 - a) Explain the embryological development of thyroid gland. (5)
 - b) Describe the gross anatomy, relations and blood supply of thyroid gland. (8)
 - c) Explain the anatomical basis of hoarseness of voice in thyroid malignancy. (3)
 - d) Add a note on lymphatic drainage and applied anatomy. (4)
2. A 32-year-old man sustains an injury to the surgical neck of humerus following a road traffic accident. He is unable to abduct the arm beyond 15 degrees.
 - a) Name the nerve involved and explain the clinical features. (3)
 - b) Describe the shoulder joint under the following headings: type, articular surfaces, ligaments and relations. (10)
 - c) Explain the mechanism of abduction of shoulder joint. (4)
 - d) Add a note on applied anatomy. (3)

Short Essay

6x10=60 Marks

3. Discuss the contributions of Andreas Vesalius and William Harvey to the development of Anatomy.
4. Describe the histological structure of trachea with a labeled diagram.
5. Describe the components of connective tissue
6. A 58-year-old man is admitted with acute myocardial infarction involving the anterior interventricular artery. Describe the coronary arteries under the following headings:
 - a. Origin
 - b. Course
 - c. Branches
 - d. Distribution
 - e. Coronary dominance
7. Describe the radiological anatomy of thorax as seen in a postero-anterior chest radiograph.
8. Describe the methods of preservation of human body and its parts. Add a note on embalming and museum specimen preparation.

19/08

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[Time: 3 Hours]

[Max. Marks: 100]

MD ANATOMY – PAPER - II

QP CODE: 5002

Your answer should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary.

Each answer should be written on new page only.

Write Question No. in the middle of the margin.

Long Essay .

2x20=40 Marks

1. A 52-year-old male presents with obstructive jaundice, weight loss and epigastric pain radiating to the back. CT scan reveals carcinoma head of pancreas.
 - a) Describe the gross anatomy of pancreas including relations, blood supply and lymphatic drainage. (10)
 - b) Explain the development of pancreas. (5)
 - c) Discuss the developmental anomalies of pancreas. (2)
 - d) Add a note on applied anatomy. (3)
2. A 28-year-old primigravida undergoes ultrasonography at 20 weeks of gestation. The fetus is diagnosed with unilateral renal agenesis.
 - a) Describe the development of kidney. (8)
 - b) Explain the development of ureter and urinary bladder. (5)
 - c) Enumerate congenital anomalies of kidney. (4)
 - d) Add a note on prenatal diagnosis. (3)

Short Essay

6x10=60 Marks

3. Compare and contrast microscopic features of skeletal and cardiac muscles.
4. Describe the histological structure of liver with a labeled diagram.
5. A 65-year-old male presents with benign enlargement of prostate causing urinary retention.
Describe the anatomy, relations, blood supply and lymphatic drainage of prostate gland.
6. Describe gastrulation and formation of trilaminar germ disc.
7. Describe the principles and applications of transmission electron microscopy.
8. Describe the anatomy of hip joint and explain its stability.

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MD ANATOMY – PAPER - III
QP CODE: 5003

Your answer should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary.
Each answer should be written on new page only.
Write Question No. in the middle of the margin.

Long Essay

2x20=40 Marks

1. A 55-year-old male presents with resting tremors, rigidity and bradykinesia. He is diagnosed with Parkinson's disease.
 - a) Describe the basal nuclei under the following headings:
 - i. Components
 - ii. Connections
 - iii. Functions (10)
 - b) Explain the role of basal nuclei in control of movements. (5)
 - c) Discuss the anatomical basis of Parkinson's disease. (3)
 - d) Add a note on applied anatomy. (2)
2. A 6-year-old boy presents with progressive muscle weakness. Genetic analysis confirms Duchenne muscular dystrophy.
 - a) Explain the structure and organization of DNA. (5)
 - b) Describe gene mutation and its types. (5)
 - c) Discuss the genetic basis, inheritance pattern and clinical features of Duchenne muscular dystrophy. (7)
 - d) Add a note on gene therapy. (3)

Short Essay

6x10=60 Marks

3. Describe the blood supply of brain.
4. Describe the functional areas and significance of cerebral cortex.
5. A patient develops facial paralysis following a lesion in the facial canal. Describe the facial nerve under the following headings:
 - a) Functional components
 - b) Nuclei
 - c) Course
 - d) Branches
 - e) Applied anatomy
6. Describe the applications of molecular genetics in medicine.
7. Describe cross section of midbrain.
8. Describe the ventricular system of brain.

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**MD ANATOMY – PAPER - IV
QP CODE: 5004**

Your answer should be specific to the questions asked.
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Each answer should be written on new page only.
Write Question No. in the middle of the margin.

Long Essay

2x20=40 Marks

1. A 40-year-old woman undergoes mandibular reconstruction following tumor excision.
 - a) Discuss the anatomical basis of craniofacial reconstruction. (5)
 - b) Explain the role of tissue engineering and biomaterials. (5)
 - c) Describe applications of 3D printing in maxillofacial surgery. (5)
 - d) Future advances in personalized reconstructive surgery. (5)
2. Describe the comparative anatomy of respiratory system

Short Essay

6x10=60 Marks

3. Artificial intelligence in anatomy education and healthcare.
4. Virtual dissection tables and digital anatomy laboratories.
5. A patient with liver cirrhosis is planned for liver transplantation.
Discuss anatomical considerations in donor and recipient surgery.
6. Molecular imaging and its applications in anatomical sciences.
7. Ethical and legal issues in cadaver and organ donation.
8. Evolution of bipedal locomotion in humans.