

MGM INSTITUTE OF HEALTH SCIENCES, NAVI MUMBAI
I B.P.T UNIVERSITY EXAMINATION, JULY - 2015

Subject – **ANATOMY**

Maximum Marks: 80
Duration – **3 Hours**
(Section A = 20 Minutes)

INSTRUCTIONS:

1. Attempt all questions
2. Maximum marks are indicated in the right
3. Illustrate the answers with suitable diagrams wherever necessary
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SECTION – A

Q.1. Short Answer Questions (Any FIVE) 25 marks

- A. Classification of Bones with example.
- B. Carpel Tunnel Syndrome
- C. Muscles of mastication, their action and nerve supply.
- D. Soleus.
- E. Internal Capsule.
- F. Nerve supply of Tongue.

Q.2. Long Answer Questions (Any ONE)

15 marks

- A. Describe Shoulder joint under following heads
 - a. Type and articulating surfaces.
 - b. Ligaments
 - c. Movements and muscles producing them.
 - d. A note on abduction of Shoulder Joint.
 - e. Applied Anatomy
- B. Describe Knee joint under following heads.
 - a. Type and articulating surfaces.
 - b. Enumerate Ligaments
 - c. A note on Minisci
 - d. Locking and Unlocking of Knee Joint
 - e. Applied Importance

SECTION – B

Q.1. Short Answer Questions (Any FIVE)

25 marks

- A. Medical Longitudinal arch of foot.
- B. Classify Cartilages with examples
- C. Supports of Uterus
- D. Stomach Bed
- E. Extra Ocular Muscles their actions and Nerve Supply
- F. Formation of Brachial Plexus and its branches

Q.2. Long Answer Questions (Any ONE)

15marks

- A. Describe Cerebellum under following heads
 - a. Gross Anatomy
 - b. Connection
 - c. Applied Importance
- B. Describe Spinal Cord under following heads
 - a. Extent and External features
 - b. Blood supply
 - c. Enumerate Ascending Tracts and sensations carried by them.
 - d. Applied Importance

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SECTION –A

Q.1. Short Answer Questions (Any FIVE) 25 marks

- A. Gluteus maximus
- B. Morphological classification of muscles with examples
- C. Boundaries and contents of cubital fossa
- D. Supination and pronation
- E. Circle of willis
- F. Claw hand

Q.2. Long Answer Questions (Any ONE)

15 marks

- A. Describe the Wrist joint under the following heads.
 - i. Type and bones taking part
 - ii. Movements and muscles producing them
 - iii. Applied anatomy
- B. Describe the Hip joint under the following heads
 - i. Type and articulating surfaces
 - ii. Ligaments
 - iii. Movement and muscles producing them

P.T.O.

SECTION – B

Q.1. Short Answer Questions (Any FIVE)

25 marks

- A. Classify synovial joints with examples
- B. Hamstring muscles
- C. Anterior relations of right kidney
- D. Blood supply of stomach
- E. Muscles of mastication
- F. Bronchopulmonary segments of right lung

Q.2. Long Answer Questions (Any ONE)

15marks

- A. Describe the Cerebrum under the following heads.
 - a. Sulci and gyri
 - b. Functional areas
 - c. Blood supply
- B. Describe the Facial nerve under the following heads.
 - a. Course and distribution
 - b. Functional components
 - c. Applied anatomy

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SECTION –A

Q.1. Short Answer Questions (Any FIVE)

25 marks

- A. Carpal tunnel syndrome
- B. Carotid triangle
- C. Bronchopulmonary segment
- D. Draw and label diagram of Circle of Willis
- E. Sesamoid bone
- F. Supports of Uterus

Q.2. Long Answer Questions (Any ONE)

15 marks

A. Discuss shoulder joint under following headings

- | | |
|--|---------|
| i. Type and articulating bones | 2 Marks |
| ii. Ligaments | 3 Marks |
| iii. Movements and muscles causing movements | 5 Marks |
| iv. Relations | 3 Marks |
| v. Applied aspect | 2 Marks |

B. Discuss Stomach wall under following headings

- | | |
|-------------------------|---------|
| i. Gross | 3 Marks |
| ii. Blood supply | 2 Marks |
| iii. Lymphatic drainage | 3 Marks |
| iv. Nerve supply | 2 Marks |
| v. Posterior relations | 3 Marks |
| vi. Applied aspect | 2 Marks |

SECTION – B

Q.1. Short Answer Questions (Any FIVE)

25 marks

- A. Hyaline cartilage
- B. Sternocleidomastoid muscle
- C. Right coronary artery
- D. Gluteus maximus
- E. Respiratory epithelium
- F. Draw and label transverse section of spinal cord at thoracic level

Q.2. Long Answer Questions (Any ONE)

15marks

A. Describe Tongue under following headings

- | | |
|---------------------------------|---------|
| i. Gross | 3 Marks |
| ii. Blood supply | 2 Marks |
| iii. Nerve supply | 3 Marks |
| iv. Muscles and their movements | 5 Marks |
| v. Applied aspect | 2 Marks |

B. Discuss Sciatic nerve under following headings

- | | |
|-----------------------------|---------|
| i. Root value and formation | 2 Marks |
| ii. Course and distribution | 6 Marks |
| iii. Branches | 4 Marks |
| iv. Applied aspect | 3 Marks |

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SECTION – A

Q.1. Short Answer Questions (Any FIVE) (5×3 Marks)

15 marks

- A. Morphology of stomach
- B. Mention the parts of uterus
- C. Posterior relations of Kidney
- D. Mention the branches of arch of aorta
- E. Classification of synovial joints
- F. Name of the contents of middle ear

Q.2. Short Answer Questions (Any FIVE) (5×7 Marks)

35 marks

- A. Bronchopulmonary segments of left lung
- B. Rotator cuff muscles
- C. Quadriceps femoris
- D. Intercostal muscle
- E. Sternocleidomastoid
- F. Name of the contents of middle ear

SECTION – B

Q.1. Long Answer Questions (Any ONE)

15 marks

- A. Describe the shoulderjoint under the following heads.
 - a. Type and bones taking part
 - b. Movements and muscles producing them
 - c. Applied anatomy
- B. Describe the Hip joint under the following heads.
 - a. Type and articulating surfaces
 - b. Ligaments
 - c. Movements and muscles producing them
 - d. Applied anatomy

P.T.O.

Q.2. Long Answer Questions (Any ONE)

15marks

A. Describe the trigeminal nerve under the following heads.

- a. Course and distribution
- b. Functional components
- c. Applied anatomy

B. Describe the Cerebrum under the following heads.

- a. Sulci and gyri
- b. Functional areas
- c. Blood supply

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SECTION – A

15 marks

Q.1. Short Answer Questions (Any FIVE) (5×3 Marks)

- A. Classification of bones with examples.
- B. Enumerate muscles of flexors of arm with its nerve supply.
- C. Classification of cartilage with examples
- D. Branches of external carotid artery
- E. Parts of stomach
- F. Enumerate muscles attached to greater tubercle of Humerus with its applied importance.

35 marks

Q.2. Short Answer Questions (Any FIVE) (5×7 Marks)

- A. Radioulnar joint
- B. Mediastinal surface of Left lung.
- C. Deltoid
- D. Hamstring muscles.
- E. Hip joint movements and muscle producing it.
- F. Enumerate muscles of larynx and its nerve supply

SECTION – B

15 marks

Q.1. Long Answer Questions (Any ONE)

- A. Describe Knee joint under following heads
 - a. Type and articular surface
 - b. Ligaments
 - c. Movements and muscles producing it
 - d. Add note on locking mechanism
 - e. Applied importance
- B. Describe posterior triangle of neck under following heads
 - a. Location and boundaries
 - b. Content
 - c. Describe any two muscles in it
 - d. Applied importance.

P.T.O.

15marks

Q.2. Long Answer Questions (Any ONE)

A. Describe Facial nerve under following heads

- a. Formation with nuclei
- b. Course extracranial
- c. Branches
- d. Applied importance

B. Describe spinal cord under following heads

- a. Location and extent
- b. External features
- c. Blood supply
- d. Ascending tracts
- e. Applied Anatomy

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SECTION –A

Q.1. Short Answer Questions (Any FIVE)

25 marks

- A. Wrist drop
- B. Sternocleidomastoid muscle
- C. Interior of right atrium
- D. Motor are
- E. Blood supply of long bone
- F. Coverings of testies

Q.2. Long Answer Questions (Any ONE)

15 marks

A. Discuss radial nerve under following headings

- | | |
|----------------------------|---|
| a. Root value | 1 |
| b. Formation | 3 |
| c. Course and distribution | 4 |
| d. Branches | 4 |
| e. Applied aspect | 3 |

B. Discuss small intestine under following headings

- | | |
|---|---|
| a. Gross anatomy | 3 |
| b. Differences between parts of small intestine | 3 |
| c. Blood supply | 3 |
| d. Microscopic anatomy | 4 |
| e. Applied Anatomy | 2 |

P.T.O.

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SECTION – A

Q.1. Short Answer Questions (Any FIVE) (5×3 Marks)

15 marks

- A. Blood supply of stomach
- B. Parts of Uterus
- C. Enumerate the branches of arch of aorta
- D. Classification of Synovial joints with examples
- E. Microscopic structure of bone
- F. Enumerate the Extraocular muscles of eye with nerve supply

Q.2. Short Answer Questions (Any FIVE) (5×7 Marks)

35 marks

- A. Rotator cuff muscles
- B. Median nerve in plam
- C. Quadriceps femoris
- D. Inversion and Eversion
- E. Popliteal fossa
- F. Hilum of lung

SECTION – B

Q.1. Long Answer Questions (Any ONE)

15 marks

- A. Describe the Shoulder joint under the following heads.

- | | |
|--|---|
| i. Type and bones taking part | 4 |
| ii. Movements and muscles producing them | 8 |
| iii. Applied anatomy | 3 |

- B. Describe the Ankle joint under the following heads.

- | | |
|---|---|
| i. Type and articulating surfaces | 2 |
| ii. Ligaments | 4 |
| iii. Movements and muscles producing them | 7 |
| iv. Applied anatomy | 2 |

P.T.O.

Q.2. Long Answer Questions (Any ONE)

15marks

A. Describe the Cerebellum under the following heads.

- | | |
|--------------------------------|---|
| i. Morphology and blood supply | 5 |
| ii. Nuclei and connections | 7 |
| iii. Applied Anatomy | 3 |

B. Describe the Trigeminal nerve under the following heads.

- | | |
|----------------------------|---|
| i. Course and distribution | 7 |
| ii. Functional components | 4 |
| iii. Applied anatomy | 4 |

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SECTION – A

25 marks

Q.1. Short Answer Questions (Any FIVE)

- A. Classification of Bones with examples
- B. Gluteus Maximus
- C. Boundaries and contents of Femoral triangle
- D. Supination and Pronation
- E. Circle of Willis
- F. Wrist drop

Q.2. Long Answer Questions (Any ONE)

15 marks

- A. Describe the Wrist joint under the following heads.
 - i. Type and bones taking part 4
 - ii. Movement and muscles producing them 8
 - iii. Applied anatomy 3
- B. Describe the Hip joint under the following heads.
 - i. Type and articulating surfaces 2
 - ii. Ligaments 4
 - iii. Movements and muscles producing them 7
 - iv. Applied anatomy 2

SECTION – B

Q.1. Short Answer Questions (Any FIVE)

25 marks

- A. Morphological classification of muscles
- B. Enumerate the muscles of flexor compartment of forearm
- C. Anterior relations of left kidney
- D. Morphology of Spleen
- E. Trapezius
- F. Bronchopulmonary segments of Right lung

P.T.O.

Q.2. Long Answer Questions (Any ONE)

15marks

A. Describe the Superolateral surface of cerebrum under the following heads.

- | | |
|----------------------|---|
| i. Sulci and Gyri | 7 |
| ii. Functional areas | 5 |
| iii. Arterial supply | 3 |

B. Describe the Hypoglossal nerve under the following heads.

- | | |
|----------------------------|---|
| i. Course and distribution | 7 |
| ii. Functional components | 4 |
| iii. Applied anatomy | 4 |

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SECTION – A

Q.1. Short Answer Questions (Any FIVE) (5×3 Marks)

15 marks

- A. Difference between large and small intestine
- B. Fibrous joint
- C. Microscopic structure of striated muscles
- D. Enumerate supports of uterus
- E. End arteries
- F. Anterior relation of right kidney

Q.2. Short Answer Questions (Any FIVE) (5×7 Marks)

35 marks

- A. Deltoid
- B. Bronchopulmonary segment
- C. Vertebral column
- D. Right coronary artery
- E. Femoral triangle
- F. Sternocleidomastoid muscles

SECTION – B

Q.1. Long Answer Questions (Any ONE)

15 marks

- A. Describe knee joint under following heading
 - a. Type and articulating surfaces
 - b. Ligaments
 - c. Relations
 - d. Movements and muscles taking parts in movements
 - e. applied
- B. Describe Radio ulnar joint under following headings
 - a. Type and classification
 - b. Ligaments
 - c. Movements
 - d. Applied
 - e. Muscles causing movement

Q.2. Long Answer Questions (Any ONE)

15marks

- A. Describe facial nerves under following headings.
 - a. Course and distribution
 - b. Functional components
 - c. Branches
 - d. Applied
- B. Describe super latera; surface of cerebrum under following headings
 - a. Sulci and Gyri
 - b. Functional areas
 - c. Blood supply
 - d. Applied

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SECTION – A

Q.1. Short Answer Questions (Any FIVE)

25 marks

- A. Classification of synovial joint with examples.
- B. Enumerate muscles of abductors of shoulder joint with its nerve supply.
- C. Hyaline cartilage
- D. Branches of Femoral artery
- E. Blood supply of stomach.
- F. Enumerate muscles attached to greater trochanter of femur.

Q.2. Long Answer Questions (Any ONE)

15 marks

- A. Describe Shoulder joint under following heads
 - a. Formation and type
 - b. Ligaments
 - c. Movements and muscles producing it
 - d. Add note on abduction of shoulder joint
 - e. applied importance
- B. Describe typical intercostal space under following heads
 - a. Formation
 - b. Content
 - c. Vascular supply
 - d. Mechanism of respiration
 - e. Applied importance

SECTION – B

Q.1. Short Answer Questions (Any FIVE)

25 marks

- A. First carpometacarpal joint.
- B. Mediastinal surface of Right lung.
- C. Deltoid.
- D. Rectus sheath.
- E. Locking and unlocking of knee joint.
- F. Enumerate muscles of palm and its nerve supply.

Q.2. Long Answer Questions (Any ONE)

15marks

- A. Describe Mandibular nerve under following heads
 - a. Formation with nuclei
 - b. Course
 - c. Branches
 - d. Otic ganglion
 - e. Applied importance
- B. Describe Cerebellum under following heads
 - a. Location and external features.
 - b. Connections
 - c. blood supply
 - d. Functions and applied importance

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SECTION – A

Q.1. Short Answer Questions (Any FIVE) (5×3 Marks)

15 marks

- A. Microscopic structure of cardiac muscle.
- B. Synovial joint
- C. Stomach Bed
- D. Posterior relations of Kidney
- E. Rt coronary artery.
- F. Contents of sperucatic cord

Q.2. Short Answer Questions (Any FIVE) (5×7 Marks)

35 marks

- A. Right Atrium
- B. Popliteal fossa
- C. Carotid triangle
- D. Muscle of mastication
- E. Intercostal muscles
- F. Triceps

SECTION – B

Q.1. Long Answer Questions (Any ONE)

15 marks

- A. Describe Hip joint under following heads.
 - i. Type and articulating surfaces
 - ii. Ligaments
 - iii. Relations
 - iv. Movement and muscle causing movements
 - v. Applied Anatomy

3 Marks
5 Marks
3 Marks
3 Marks
3 Marks

- B. Describe elbow joint under following heads.
 - i. Type and articulating surfaces.
 - ii. Ligaments
 - iii. Movement and muscle causing movements
 - iv. Applied Anatomy

3 Marks
5 Marks
5 Marks
2 Marks

P.T.O

Q.2. Long Answer Questions (Any ONE)

15marks

A. Describe Glossopharyngeal Nerve under following heads

- | | |
|----------------------------|---------|
| i. Course and distribution | 6 Marks |
| ii. Functional components | 3 Marks |
| iii. Branches | 3 Marks |
| iv. Applied | 3 Marks |

B. Describe cerebellum under following heads.

- | | |
|---|---------|
| i. External and Internal features | 5 Marks |
| ii. Structures passing through cerebellum | 4 Marks |
| iii. Blood supply of cerebellum | 3 Marks |
| iv. Applied Aspect | 3 Marks |

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SECTION –A

Q.1. Short Answer Questions (Any FIVE)

25 marks

- A. Muscles of mastication
- B. Curvature of vertebral column
- C. Openings of the diaphragm
- D. Nephron
- E. Nuclei of cerebellum
- F. Cubital fossa

Q.2. Long Answer Questions (Any ONE)

15 marks

- | | |
|---|---|
| A. Describe branchial plexus under following headings | |
| i. Formation | 5 |
| ii. Branches | 5 |
| iii. Applied anatomy | 5 |
| B. Describe hip joint under following | |
| i. Type and bone taking part | 2 |
| ii. Relation | 3 |
| iii. Ligaments | 4 |
| iv. Movement and muscle producing movements | 4 |
| v. Applied | 2 |

SECTION – B

Q.1. Short Answer Questions (Any FIVE)

25 marks

- A. T.S of ground bone
- B. Branches of external carotid artery
- C. Biceps brachii muscle
- D. Axillary nerve
- E. Lymphatic Drainage of stomach
- F. Foot drop

P.T.O

Q.2. Long Answer Questions (Any ONE)

15marks

A. Describe superolateral surface of brain under following headings-

- | | |
|----------------------|---|
| i. Sulci and guri | 4 |
| ii. Functional areas | 4 |
| iii. Blood supply | 3 |
| iv. Applied | 4 |

B. Describe uterus under following headings-

- | | |
|---------------------|---|
| i. Parts and layers | 4 |
| ii. Blood supply | 3 |
| iii. Applied | 3 |
| iv. Supports | 5 |

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SECTION – A

Q.1. Short Answer Questions (Any FIVE) (5×3 Marks)

15 marks

- A. Blood supply of long bone
- B. Enumerate supports of uterus
- C. Hyaline cartilage
- D. Blood supply of stomach
- E. Left coronary artery
- F. Coverings of testis

Q.2. Short Answer Questions (Any FIVE) (5×7 Marks)

35 marks

- A. Carpal tunnel syndrome
- B. Boundaries and contents of cubital fossa
- C. Soleus
- D. Digastric triangle
- E. Respiratory movements
- F. Femoral triangle

SECTION – B

Q.1. Long Answer Questions (Any ONE)

15 marks

- A. Describe shoulder joint
- B. Describe knee joint under following headings
 - i. Type and articulating Bones 3 Marks
 - ii. Ligaments 4 Marks
 - iii. Movement and muscle causing movements 5 Marks
 - iv. Applied 3 Marks

Q.2. Long Answer Questions (Any ONE)

15marks

- A. Describe hypoglossal nerve under following headings
 - i. Functional components 3 Marks
 - ii. Origin, course branches 5 Marks
 - iii. Distribution 4 Marks
 - iv. Applied aspect 3 Marks
- B. Describe superolateral surface of brain under following headings
 - a. Sulci and gyri 4 Marks
 - b. Functional areas 4 Marks
 - c. Blood supply 4 Marks
 - d. Applied Aspect 3 Marks