

# M.B.B.S. [1<sup>st</sup> Prof.]

BF/2009/07

## Anatomy – A

M.M. : 50

Time : 3 Hours

*Note :* Attempt all questions. Illustrate your answers with suitable diagrams.  
**USE SEPARATE ANSWER SHEET FOR EACH PART.**

### PART - I

1. **Describe PHARYNX under following headings:**
  - a. Muscles. [3]
  - b. Nerve supply. [2]
  - c. Blood supply. [2]
  
2. **Write short notes on:**
  - a. Mid Palmar space and its applied aspect. [3]
  - b. Development of Tonsil. [3]
  - c. Visual cortex and its applied anatomy. [3]
  
3. **Draw labeled diagrams of:**
  - a. Nerve supply of Septum of Nose. [3]
  - b. Histology of Submandibular gland. [3]
  - c. Boundaries of central part of Lateral ventricle. [3]

### PART – II

4. Describe origin, course, relations and branches of AXILLARY Nerve. Add a note on its applied aspect. [8]
  
  5. **Write short notes on:**
    - a. Dangerous area of face. [3]
    - b. Superior Colliculus. [3]
    - c. Applied anatomy of Cavernous sinus. [3]
  
  6. **Enumerate the following:**
    - a. Branches of Posterior cord of brachial plexus. [2]
    - b. Nerves in intimate relations with humerus. [2]
    - c. Branches of external Carotid artery in Carotid triangle. [2]
    - d. Various openings in the fourth ventricle. [2]
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## Anatomy – B

M.M. : 50

Time : 3 Hours

*Note :* Attempt all questions.

Draw proper diagrams in support of your answer.

**USE SEPARATE ANSWER SHEET FOR EACH PART.**

### PART - I

1. **Describe UTERUS under following headings:**
  - a. Relations. [4]
  - b. Supports. [3]
  - c. Prolapse. [2]
  
2. **Write in short:**
  - a. Development of Pancreas and its anomalies. [5]
  - b. Ventricular Septal Defect with its applied. [5]
  
3. **Write in brief:**
  - a. Hamstring's muscle and their characteristic features. [3]
  - b. Patau's syndrome. [3]

### PART – II

4. **Draw well labeled diagrams of:**
  - a. Horizontal disposition of Peritoneum at the level of Epiploic foramen. [3]
  - b. Microanatomy of Kidney. [3]
  - c. Relations of mediastinal surface of Left Lung. [3]
  
5. **Write in brief:**
  - a. Arches of Foot with special note on medial Longitudinal arch. [4]
  - b. Venous drainage of Heart. [4]
  
6. **Enumerate only:**
  - a. Contents of Inguinal canal. [2]
  - b. Branches of Lumbar plexus. [2]
  - c. Surgical segments of Liver. [2]
  - d. Various parts of Male and Female Urethra. [2]

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## Biochemistry – A

M.M. : 50

Time : 3 Hours

Note : Attempt all questions.

**USE SEPARATE ANSWER SHEET FOR EACH PART.**

### PART - I

1. **Write briefly:**
  - a. What is Dextrose? Mention its clinical uses. [2]
  - b. What is Glycemic Index? Mention its importance. [2]
  - c. What are the Ketone bodies. Mention the beneficial and bad effects of Ketone body. [2]
  - d. What is the rate limiting step of Cholesterol biosynthesis. Mention one Cholesterol lowering drug with its mode of action. [2]
2. **Discuss about:**
  - a. Glycogenolysis. [4]
  - b. Lipid metabolism in adipose tissue. [4]
3. **Write short notes on:**
  - a. Vitamin K. [3]
  - b. Chronic alcoholism. [3]
  - c. Oxidative Phosphorylation. [3]

### PART – II

4. **Write briefly:**
    - a. Structure of Immunoglobulin. [2]
    - b. Haemoglobin as buffer. [2]
    - c. LDL receptor. [2]
    - d. Oxidative deamination. [2]
  5. **Discuss about:**
    - a. Role of liver in lipid transport and metabolism. [4]
    - b. Synthesis of specialized products from amino acids. [4]
  6. **Write short notes on:**
    - a. Isoenzymes. [3]
    - b. Essential fatty acids. [3]
    - c. Phenylketonuria. [3]
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## Biochemistry – B

M.M. : 50

Time : 3 Hours

*Note :* Attempt all questions.

**USE SEPARATE ANSWER SHEET FOR EACH PART.**

### PART - I

1. Discuss process of Replication in detail. [8]
2. **Discuss in brief:**
  - a. Liver function tests. [4]
  - b. Calcium homeostasis. [4]
3. **Write short notes on:**
  - a. Respiratory alkalosis. [3]
  - b. Western blot. [3]
  - c. PAGE. [3]

### PART – II

4.
  - a. What are sources for synthesis of Purine ring. [4]
  - b. Discuss mechanism of detoxification. [4]
5. **Write short notes on:**
  - a. Post translation modification of Protein. [3]
  - b. Hyponatremia. [3]
  - c. Wilson's disease. [3]
6.
  - a. Discuss regulation of blood pH. [4]
  - b. Give an account of application of Genetic engineering. [4]

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## Physiology – A

M.M. : 50

Time : 3 Hours

Note : Attempt all questions.

**USE SEPARATE ANSWER SHEET FOR EACH PART.**

### PART - I

1. Describe the connections, functions and applied aspect of Cerebellum. [10]
2. **Write notes on:**
  - a. Types of Cell junctions with examples and diagrams. [4]
  - b. Define Osmotic pressure and describe Osmosis. [4]
3. **Write in brief:**
  - a. Resting membrane potential. [4]
  - b. Osmolarity and Osmolality. [3]

### PART – II

4. **Write in detail:**
  - a. Hypoparathyroidism. [5]
  - b. Sequence of events at neuromuscular junction. [5]
5. **Write in brief:**
  - a. Oral contraceptive pills. [4]
  - b. Actions of growth hormone. [4]
6. **Write notes on:**
  - a. Composition, formation and functions of Cerebrospinal Fluid. [4]
  - b. Correction of various Refractive errors of eye. [3]

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## Physiology – B

M.M. : 50

Time : 3 Hours

*Note :* Attempt all questions.

Illustrate your answers with suitable diagrams & graphs.

**USE SEPARATE ANSWER SHEET FOR EACH PART.**

### PART - I

1. Define Blood pressure. Discuss the long term regulation of blood pressure.  
[2+8=10]
  
2. **Write short notes on:**
  - a. Protein Calorie malnutrition. [4]
  - b. Fever. [3]
  
3. **Write in brief:**
  - a. Erythroblastosis foetalis. [4]
  - b. Regulation of gastric juice secretion. [4]

### PART - II

4. **Write short notes on:**
    - a. Water diuresis. [4]
    - b. Oedema. [4]
  
  5. **Write in short:**
    - a. Hypoxia & its various types. [5]
    - b. Anticoagulants. [4]
  
  6. **Write in short:**
    - a. Hyaline membrane disease. [4]
    - b. Coronary circulation. [4]
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