**B.Sc. [ Medical (Part-II) ]**

### BF/2016/03

# Anatomy

## Time : 3 Hours Max Marks : 100

*Note: Attempt all the questions.*

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

##### PART – I

1. Describe Brachial Plexus. [20]

2. Describe surface anatomy of Left Lung. [10]

3. **Write Short Notes/ Labelled Diagram :** [4x5=20]

a. Development of Midgut.

b. Development of Urinary Bladder.

c. Mesonephric Duct.

d. Development of Left Atrium.

##### PART –II

1. Mammary Gland. [20]

2. Wrist Joint. [10]

3. **Write Short Notes/Histological labelled diagrams :** [4x5=20]

a. Branches of Brachial Artery.

b. Abduction at Shoulder Joint.

c. Histology of Trachea.

d. Histology of Kidney.

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# Biochemistry

## Time : 3 Hours Max Marks : 100

*Note: Attempt all questions.*

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

##### PART – I

1. Describe the process of Glycogenolysis and Glycogenesis. Also give an account of Glycogen storage diseases.

[20]

2. Describe the Function, Absorption, Sources and Diseases related to Iron.

[10]

3. **Write Short Notes on** : [4x5=20]

a. Gout.

b. Maple Syrup Urine Disease.

c. Disorders of Lipoproteins.

d. Lactic Acidosis.

##### PART –II

1. Describe Cholesterol Biosynthesis and Degradation in the body. Also mention its clinical significance. [20]

2. Describe the Biosynthesis and Biochemical Functions of Thyroid Hormones.

[10]

3. **Write Short Notes on** : [4x5=20]

a. Physiologically important compounds formed from Tryptophan.

b. Biochemical Functions of Iodine.

c. Fate of Ketone Bodies.

d. Hormones regulating Water Balance.

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# Physiology

## Time : 3 Hours Max Marks : 100

*Note: Attempt all questions.*

*Draw well Labelled diagram wherever required.*

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

##### PART – I

1. What is Cardiac output and discuss factors regulating it. [20]

2. Discuss Hypoxia and discuss various types of hypoxia. [10]

3. **Write Short Notes on :**  [4x5=20]

(a) P – R Interval.

(b) Length Tension relationship in Skeletal Muscle Fibre.

(c) Muscle Proteins.

##### (d) Non Respiratory Functions of Lung.

##### PART –II

1. Define Blood Pressure. Discuss factors regulating Blood Pressure. [20]

2. Volume – Pressure relationship of Left Ventricle during Cardiac Cycle. [10]

3. **Write Short Notes on:**  [4x5=20]

(a) Balanced Diet.

(b) Heart Sound.

(c) Cyanosis.

(d) Compound Action Potential in Nerve Fibre.

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