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

### BF/2016/03

# Anatomy

## Time : 3 Hours Max Marks : 100

*Note: Attempt all questions.*

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

##### PART – I

1. Describe Muscles of Larynx with their Origin, Insertion, Nerve supply action and Applied anatomy. [20]

2. Describe various Cerebellar peduncle with their constituent fibers. [10]

3. **Write Short Notes/Labelled diagram of :-** [5x4=20]

 (a) Blood supply of Lateral wall of Nose.

 (b) Derivative of I Pharyngeal Arch Mesoderm.

 (c) Histology of Retina.

 (d) Muscles of Palate.

##### PART –II

1. Describe Sulci, Gyri and Blood supply of Medial surface of Cerebrum.

 [20]

2. Describe gross anatomy and applied anatomy of Tonsil. [10]

3. **Write Short Notes/Labelled diagram of** : [5x4=20]

 a. Branches of External Carotid Artery.

b. Corpus Callosum.

 c. Cutaneous Nerve supply of Scalp.

 d. Sterno cleidomastoid.

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

### BF/2016/03

# Biochemistry

## Time : 3 Hours Max Marks : 100

*Note: Attempt all questions.*

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

##### PART – I

1. Write on Biological Oxidation and Electron Transport Chain. [20]

2. Describe mechanism of Muscle Contraction. [10]

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

 a. PCR (Polymerase Chain Reaction).

 b. Blood Urea.

 c. Antigen.

 d. First step of Heme Synthesis.

##### PART –II

1. Discuss process of Translation in Prokaryotes. [20]

2. Discuss Inhibitors of Oxidative Phosphorylation. [10]

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

 a. Calorimetry.

 b. DNA Finger Printing.

 c. Transcription Inhibitors.

 d. Innate Immunity.

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# Physiology

## Time : 3 Hours Max Marks : 100

*Note: Attempt all questions.*

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

##### PART – I

1. Discuss in detail Mechanism of action of Insulin with pathophysiology of Diabetes Mellitus. [20]

2. Discuss Visual pathway and Lesion at various levels. [10]

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

 a. Organ of Corti.

 b. Functions of Oestrogen.

 c. Conductive Deafness.

 d. Stretch Reflex.

##### PART –II

1. Discuss mechanism of action of Hormones acting in or on surface of Cell Membrane. [20]

2. Discuss in detail Cortico - Spinal Pathway. [10]

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

 a. Properties of Receptors.

 b. Errors of Refraction.

 c. Ovulatory Function Test.

 d. L.H. Surge.

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# Psychology & Education

## Time : 3 Hours Max Marks : 80

*Note: Attempt all questions.*

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

##### PART – I

1. Describe Psychosocial factors which lead to aggressive and violent behavior in young adults of an Indian. [12]

2. Discuss the various measures of rehabilitation of Drug Addicts. [8]

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

a. Future Problems of Indian Youth.

 b. Rehabilitation of Emotionally Disturbed Students.

 c. Different aspects of Cognition.

 d. Religion and Health.

##### PART – II

1. Describe Slide projectors, videos, digital recording cameras and digital projector are

helpful in modern education of Medical Sciences. [12]

2. Discuss the role of Library and its implication in Medical Education of Indian Youth. [8]

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

a. Counselling and Psychotherapy.

b. Student Evaluation.

c. Needs of Student Evaluation.

d. Computer and Medical Education.

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