

B.Sc.(N) [1st Year]
 BF/2021/06
Anatomy & Physiology
 [New Scheme w.e.f. 2006]

Time : 3 Hours

Max Marks : 75

Note: 1.) Attempt all questions.

2.) **USE SEPARATE ANSWER BOOK FOR EACH PART.**

3.) **The Student must write separate O.P. Code in the space provided on the Title Page of the respective Answer Book.**

SECTION-A

[37 Marks]

QP Code: BNN101

[ANATOMY]

1. (i) (a) Draw a labelled diagram of the Human cell structure. [2]
 (b) Discuss the general structure of a Long bone. [4]
 (c) Describe structure of the Brain stem. [4]

OR

- (ii) (a) Draw a labelled diagram of the Cardiac muscle fibres. [2]
 (b) Discuss the classification of Joint. [4]
 (c) Describe structure of the Eye. [4]
2. (a) Draw a labeled diagram of an Artery. [2]
 (b) Discuss the structure of the Heart. [4]
 (c) Describe the structure of the Trachea. [4]

3. **Describe in brief any TWO of the following.** [2½x2=5]

- (a) Draw a labelled diagram of the Pancreas.
 (b) Discuss the gross structure of the Kidney.
 (c) Describe the structure of the Breast.

4. **Write Short Notes on any FOUR of the following :** [3x4=12]

- (a) Healing of Bone (b) Peripheral nerves
 (c) Lymphatic nodules (d) Pituitary gland
 (e) Structure of skin (f) Paired directional terms used in anatomy

SECTION-B

[38 Marks]

QP Code: BNN102

[PHYSIOLOGY]

1. (i) (a) Describe the functions of Loose (areolar) connective tissue. [2]
 (b) Discuss the movements possible at Synovial joints. [4]
 (c) Enlist the muscles of the Shoulder and Upper Limb. [4]

OR

- (ii) (a) Enlist the functions of the Cerebral cortex. [2]
 (b) Discuss the Pulmonary circulation. [4]
 (c) Identify the functions of the Pleura. [4]

2. (a) Explain the role of Saliva in digestion. [2]
 (b) Discuss maintenance of Body water and Electrolyte balance. [4]
 (c) Describe the physiology of Hearing. [4]

3. **Describe in brief any TWO of the following :** [3x2=6]

- (a) Explain the functions of Anterior pituitary gland.
 (b) Discuss the functions of the Uterus.
 (c) Describe the functions of T- cells and B cells

4. **Write Short Notes on any FOUR of the following :** [3x4=12]

- (a) Portal circulation
 (b) Puberty in male
 (c) Spinal nerves
 (d) Coronary circulation
 (e) Functions of gall bladder
 (f) Spleen
