

**B.Sc.(N) [1<sup>st</sup> Year]**
  
 BF/2019/02
   
**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 diagram of Human Cell. [2]  
 (b) Discuss classification and structure of the Epithelium Tissue. [4]  
 (c) Discuss structure of three types of Cartilage. [4]

**OR**

- (ii) (a) Define Skeletal System. [2]  
 (b) Features of various types of Vertebrae [4]  
 (c) Describe Structure of Ear. [4]
2. (a) Classify Blood Circulation in Human Body. [2]  
 (b) Write brief about Systemic Circulation in Human Body. [4]  
 (c) Describe Leukocytes. [4]
3. **Describe in brief any TWO of the following :** [2½x2=5]  
 (a) Structure of Skin  
 (b) Structure of Adrenal Gland  
 (c) Muscle of Respiration
4. **Write Short Notes on any FOUR of the following :** [3x4=12]  
 (a) Structure of Breast (b) Biliary Tract  
 (c) Structure of a Typical Long Bone (d) Autonomic Nervous System  
 (e) Structure of Muscles (f) Cerebral Spinal Fluid

**SECTION-B**

**[38 Marks]**

**QP Code: BNN102 [PHYSIOLOGY]**

1. (i) (a) List the organelles of a Typical Human Cell. [2]  
 (b) Discuss functions of a Human Cell. [4]  
 (c) Describe functions of Connective Tissues. [4]

**OR**

- (ii) (a) Enlist the types of Fractures. [2]  
 (b) Describe the healing process of Bone. [4]  
 (c) Discuss main movements at Synovial Joints. [4]
2. (a) Functions of Neuron [2]  
 (b) Describe functions of Spinal Cord. [4]  
 (c) Physiology of Muscle Contraction [4]
3. **Describe in brief any TWO of the following :** [3x2=6]  
 (a) Describe the functions of Small Intestine related to Digestion and Absorption of Food.  
 (b) Describe the functions of a Kidney.  
 (c) Regulation of Body Temperature.
4. **Write Short Notes on any FOUR of the following :** [3x4=12]  
 (a) Hemoglobin  
 (b) Functions of Nose  
 (c) Difference between Mitosis and Meiosis  
 (d) Antigens and Antibodies  
 (e) Spinal Nerves  
 (f) Pulmonary Ventilation