

**B.Sc.(N) [1<sup>st</sup> Year]**  
 BF/2021/11  
**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 Eyeball Structures. [2]  
 (b) Briefly explain the structure & functions of Human Cell. [4]  
 (c) Explain briefly the organs of Respiratory system. Write differences between right & left lungs. [4]

**OR**

- (ii) (a) Draw a labeled diagram of Femur bone. [2]  
 (b) Explain Cardiac Cycle. [4]  
 (c) Write differences between High blood pressure and Low blood pressure. [4]
2. Explain the followings :  
 (a) Kidneys [4]  
 (b) Digestive system [4]  
 (c) Functions of Bile [2]
3. **Describe in brief any TWO of the following :** [2½x2=5]  
 (a) Functions of Skin.  
 (b) Functions of Nervous system.  
 (c) Functions of Pineal gland.
4. **Write Short Notes on any FOUR of the following :** [3x4=12]  
 (a) Testes (b) Mastication Process  
 (c) Homeostasis (d) Bowman's capsule  
 (e) DNA (f) Elastic cartilage

**SECTION-B**

**[38 Marks]**

**QP Code: BNN102**

**[PHYSIOLOGY]**

1. (i) (a) Define Cell cycle. [2]  
 (b) Briefly explain the physiology of Smell. [4]  
 (c) Briefly explain the conduction system of Heart. [4]

**OR**

- (ii) (a) Draw a labeled diagram of Neuron. [2]  
 (b) Briefly explain the structure of Uterus. [4]  
 (c) Write differences between male pelvic and female pelvic. [4]
2. (a) Physiology of Taste [2]  
 (b) Connective tissue [4]  
 (c) Mechanism of Respiration [4]
3. **Describe in brief any TWO of the following :** [3x2=6]  
 (a) Process of Urine formation  
 (b) Cell division  
 (c) Osmosis
4. **Write Short Notes on any FOUR of the following :** [3x4=12]  
 (a) Cardiac output (b) Microglial cells  
 (c) Kupffer cells (d) Mitral valve  
 (e) RBCs (f) ACTH