

B.Sc.(N) [1st Year]

 BF/2020/11

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 Ciliated columnar epithelium tissue. [2]
 (b) Discuss the general structure of Vertebral column. [4]
 (c) Describe structure of the Cerebellum. [4]

OR

- (ii) (a) Draw a labelled diagram of the Smooth muscle fibres. [2]
 (b) Discuss the Shoulder joint. [4]
 (c) Describe the structure of the Ear. [4]
2. (a) Draw a labeled diagram of a Vein. [2]
 (b) Discuss the Circulation of blood to the Head and Neck. [4]
 (c) Describe the structure of the Pleural cavity. [4]

3. **Describe in brief any TWO of the following :** [2½x2=5]
 (a) Draw a labelled diagram of the Oesophagus
 (b) Discuss the structure of the Urinary bladder
 (c) Describe the structure of the Ovaries

4. **Write Short Notes on any FOUR of the following :** [3x4=12]
 (a) Bone formation (b) Sympathetic nerve system
 (c) Lymphatic vessels (d) Parathyroid gland
 (e) Pancreas (f) Membranes

SECTION-B

[38 Marks]

QP Code: BNN102

[PHYSIOLOGY]

1. (i) (a) Describe the functions of Dense connective tissue. [2]
 (b) Discuss the movements possible at Ball and Socket Joints. [4]
 (c) Enlist the muscles of the Hip and Lower Limb. [4]

OR

- (ii) (a) Enlist the functions of the Medulla oblongata. [2]
 (b) Discuss the circulation of blood to the Head. [4]
 (c) Identify the functions of the Pharynx. [4]
2. (a) Explain the role of Tongue in digestion. [2]
 (b) Discuss regulation of Body temperature. [4]
 (c) Describe the functions of Eye. [4]

3. **Describe in brief any TWO of the following :** [3x2=6]
 (a) Explain the functions of Pineal Body
 (b) Discuss the Female sexual cycle
 (c) Describe the functions of T- cells and B cells

4. **Write Short Notes on any FOUR of the following :** [3x4=12]
 (a) Factors influencing Blood pressure
 (b) Spermatogenesis
 (c) Reflex action
 (d) Functions of liver
 (e) Physiology of muscle contraction
 (f) Antigen