

VPM's B.N.Bandodkar College of Science, Thane  
Human Sciences F.Y.B.Sc ; Course- USHSC103  
ATKT Semester I – 2018-19

Total Marks: 75

Duration: 2.5 hrs

**N.B:1. All questions are compulsory.**

**2. Figures to the right indicate marks.**

**3. Draw neat and labeled diagrams wherever necessary.**

- Q.1) (A) Describe the Structure of Human Eye with neat labeled diagram. (7)  
OR  
(A) Define Pulmonary Circulation. Explain the external structure of Human Heart with diagram. (7)  
(B) Explain the structure of Liver with neat labeled diagram. Add a note on its functions. (8)  
OR  
(B) Describe the Hormones Secreted by Anterior pituitary & their functions. (8)  
(C) **Attempt any ONE of the following:** (5)  
(i) Define Gustation. Add a note on types of papillae  
(ii) Explain the Structure of Lungs.
- Q.2) (A) Describe Pelvic Girdle with neat & labeled diagram. (7)  
OR  
(A) Define Muscle. Explain the steps involved in Muscle Contraction. (7)  
(B) Describe Atlas & Axis Vertebra with a neat & labeled diagram. (8)  
OR  
(B) Describe Bones of Forelimb with neat & labeled diagram. (8)  
(C) **Attempt any ONE of the following:** (5)  
(i) Write a note on types of Muscle.  
(ii) Explain the Structure of Thoracic vertebra & Sternum.
- Q.3) (A) Explain the Structure of Human Male Reproductive System with neat labeled diagram. (7)  
OR  
(A) Describe Human Digestive System with neat labeled diagram. (7)  
(B) Explain the Physiology of Urine Formation with neat labeled diagram. (8)  
OR  
(B) Describe Stages of Menstrual cycle. (8)  
(C) **Attempt any ONE of the following:** (5)  
(i) Define: Expiratory Reserve Volume, Residual Volume & Vital Space.  
(ii) Describe the Structure of Antibody with diagram.
- Q.4) **Attempt Any THREE of the following:** (15)  
(i) Write a note on structure of Pancreas & its hormones.  
(ii) Give the functions of parathyroid gland & Pineal gland.  
(iii) Write a note on Bones of Skull.  
(iv) Explain the structure of Clavicle & Scapula.  
(v) Types of Barriers in Innate Immunity.  
(vi) Define: Inspiration, Expiration & Intra pleural Pressure.
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