

VPM's B. N. Bandodkar College of Science, Thane  
Human Sciences F.Y.B.Sc ; Course- USHSC201  
Semester II - 2017-18

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) Enlist the prominent features of Human Skull. (7)  
OR  
(A) Explain the different lobes in Human Brain with neat labeled diagram. (7)  
(B) Describe Human Brain with neat labeled diagram (8)  
OR  
(B) Distinguish between Right & Left hemispheres of Human Brain. (8)  
(C) Attempt any ONE of the following: (8)  
(i) Relationship between Brain size & Intelligence (5)  
(ii) Write a note on MRI & CT scan.
- Q.2) (A) Explain Autonomic Nervous System. (7)  
OR  
(A) Explain Peripheral Nervous System. (7)  
(B) Describe T. S. Spinal cord with the help of diagram. (8)  
OR  
(B) Explain Reflex action and five elements of Reflex arc. (8)  
(C) Attempt any ONE of the following: (5)  
(i) Write a note Unconditioned Reflex action. (5)  
(ii) Write a note on Mechanism of Reflex action.
- Q.3) (A) Explain Conduction of nerve impulses. (7)  
OR  
(A) Explain the functions of Dopamine & Serotonin (7)  
(B) What are Neurotransmitters? Explain the important Functions of Neurotransmitters. (8)  
OR  
(B) Describe Catecholamines. Add a note on their functions. (8)  
(C) Attempt any ONE of the following: (5)  
(i) Types of Nerve fibres. (5)  
(ii) Write a note on Histamine.
- Q.4) Attempt Any THREE of the following: (15)  
(i) What are the advantages of Brain Imaging Techniques?  
(ii) Give the functions of: Pons, Cerebellum & Hypothalamus  
(iii) Types of reflex actions.  
(iv) Write a note on Reflex arc.  
(v) Define Neuron & its types.  
(vi) Give the functions of : GABA & Acetylcholine.