



## BRAINWARE UNIVERSITY

Term End Examination 2023-2024

Programme – B.Sc.(OTT)-2022/B.Sc.(OTT)-2023/B.Sc.(CCT)-2023

Course Name – Human Physiology

Course Code - BOTT102/BCCT102

( Semester I )

Full Marks : 60

Time : 2:30 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

### Group-A

(Multiple Choice Type Question)

1 x 15=15

1. Choose the correct alternative from the following :

- (i) Recognize the nerve fibre in which action potential move fast
  - a) unmyelinated nerve fibre
  - b) myelinated nerve fibre
  - c) demyelinated nerve fibre
  - d) None of these
- (ii) Choose the correct option: The volume of air that we normally breathe in and out in a quiet respiration is termed as:
  - a) Residual volume
  - b) Functional residual capacity
  - c) Tidal volume
  - d) Normal reserve volume
- (iii) Select the type of water transport process in nephron
  - a) passive diffusion
  - b) Aquaporin channel
  - c) active transport
  - d) osmosis
- (iv) Explain why SA node is termed as the pacemaker of the heart.
  - a) SA node has a poor cholinergic innervation
  - b) SA node has a rich sympathetic innervation
  - c) SA node can generate impulses at the lowest rate
  - d) SA node can generate impulses at the highest rate
- (v) Identify function of Botulinum toxin
  - a) enhance neurotransmitter release
  - b) inhibit neurotransmitter release
  - c) inhibit muscle relaxation
  - d) inhibit spasticity
- (vi) Write the name of blood component that maintains blood pressure and fluid balance.
  - a) RBC
  - b) WBCs
  - c) Platelets
  - d) Plasma
- (vii) Identify the function of Cerebral cortex
  - a) Maintaining balance:
  - b) Coordination of the movement
  - c) Planning and organization
  - d) None of these
- (viii) Identify the phase of cardiac cycle in which ventricles are filled with blood.
  - a) Arterial Depolarization
  - b) Arterial Repolarization
  - c) Ventricular Systole
  - d) Ventricular Diastole

