

**Topic :- Neural Control & Coordination**

- The human ear is equipped to register sounds of frequencies between
  - 20 to 20,000 cycles per second
  - 1000 to 2000 cycles per second
  - 5000 to 7000 cycles per second
  - 5,000 to 10,000 cycles per second
- The endocrine system provides chemical integration through hormones
  - The neural system provides an organised network of point to point connection for a quick coordination
  - The neural organization is very complex in lower invertebrates
  - The human neural system includes CNS and PNSSelect the correct statements
  - Only I
  - I and II
  - I, II and IV
  - I, II and III
- The tract of nerve fibres which connects the cerebral hemisphere is
  - Corpus luteum
  - Corpus callosum
  - Corpora quadrigemina
  - Cerebral aqueduct
- Eustachian canal connects
  - Middle ear with external ear
  - Middle ear with internal ear
  - External ear with internal ear
  - Pharynx with middle ear
- Which has H-shaped grey matter?
  - Cerebrum
  - Medulla oblongata
  - Cerebellum
  - Spinal cord
- Which part of CNS mainly controls the reflex?
  - Cerebellum
  - Pons
  - Spinal cord
  - Cerebral aqueduct
- Respiratory control centre is
  - Cerebellum
  - Medulla oblongata
  - Spinal cord
  - Cerebrum
- Olfactoreceptors are
  - Touch receptors
  - Pain receptors
  - Smell receptors
  - Pressure receptors

9. In nerve fibre, the impulses transmits quickly due to  
a) Myelin sheath      b) Nodes of Ranvier      c) Both (a) and (b)      d) None of the above
10. Labyrinth, fluid-filled inner ear consists of  
a) Bony labyrinth      b) Membranous labyrinth  
c) Both (a) and (b)      d) Ear drum
11. The sound producing organ of bird is  
a) Oropharynx      b) Nasopharynx      c) Glottis      d) Syrinx
12. Reflex arc in the nervous system means  
a) A functional unit consisting of a receptor neural pathway and an effector neuron  
b) Peripheral nerves, spinal cords and brain  
c) A homeostatic system of sensory nerves, synapses and motor nerves  
d) An inherited behaviour pattern that functions through a certain neural pathway
13. Salivation in man is under the control of  
a) Medulla oblongata      b) Mesencephalon      c) Hypothalamus      d) Cerebellum
14. Static equilibrium is maintained by  
a) Utriculus      b) Sacculus  
c) Both (a) and (b)      d) Semi-circular canals
15. Human ears perform sensory functions. These are  
a) Hearing organs      b) Maintenance of body balance  
c) Both (a) and (b)      d) Voice production
16. When a neuron is in resting state, *i.e.*, not conducting any impulse, the axonal membrane is  
a) Equally permeable to both  $\text{Na}^+$  and  $\text{K}^+$  ions  
b) Impermeable to both  $\text{Na}^+$  and  $\text{K}^+$  ions  
c) Comparatively more permeable to  $\text{K}^+$  ions and nearly impermeable to  $\text{Na}^+$  ions  
d) Comparatively more permeable to  $\text{Na}^+$  ions and nearly impermeable to  $\text{K}^+$  ions

17. Different cranial nerves, with their respective functions are given below. Choose the correct option from the codes given below

Name	Function
I. Hypoglossal	Hearing equilibrium
II. Glossopharyngeal	Movements of pharynx, larynx, neck, and shoulder
III. Pathetic	Rotation of eyeball
IV. Oculomotor	Movement of eyeball

- Codes
- a) I and II                      b) II and IV                      c) III and IV                      d) I, II, III and IV
18. In humans, gustatoreceptors are found in
- a) Eyes                      b) Ears                      c) Tongue                      d) Stomach
19. 'Pons Varolii' connects the
- a) Two cerebral hemispheres                      b) Two lobes of cerebellum
- c) Cerebrum and cerebellum                      d) Spinal cord with the brain
20. There are different types of cones to human eye that responds to
- a) Red and green lights                      b) Green and blue lights
- c) Red and blue lights                      d) Red, green and blue lights

