



VIDYA BHARATI SCHOOL

Olympiad (2017-18) August

Grade X Subject: Science

1. Which of The Following Statements Is Correct About Receptors?
 - Gustatory Receptors Detect Taste While Olfactory Receptors Detect Smell
 - Both Gustatory and Olfactory Receptors Detect Smell
 - Auditory Receptors Detect Smell and Olfactory Receptors Detect Taste
 - Olfactory Receptors Detect Taste and Gustatory Receptors Smell
2. Electrical Impulse Travels in A Neuron From
 - Dendrite, Axon, Axonal End, Cell Body
 - Cell Body, Dendrite, Axon, Axonal End
 - Dendrite, Cell Body, Axon, Axonal End
 - Axonal End, Axon, Cell Body, Dendrite
3. In A Synapse, Chemical Signal Is Transmitted From
 - Dendritic End of One Neuron to Axonal End of Another Neuron
 - Axon to Cell Body of The Same Neuron
 - Cell Body to Axonal End of The Same Neuron
 - Axonal End of One Neuron to Dendritic End of Another Neuron
4. In A Neuron, Conversion of Electrical Signal to A Chemical Signal Occurs At/In
 - Cell Body
 - Axonal End
 - Dendritic End
 - Axon
5. Which Is the Correct Sequence of The Components of a Reflex Arc?
 - Receptors? Muscles? Sensory Neuron? Motor Neuron? Spinal Cord
 - Receptors? Motor Neuron? Spinal Cord? Sensory Neuron? Muscle
 - Receptors? Spinal Cord? Sensory Neuron? Motor Neuron? Muscle
 - Receptors? Sensory Neuron? Spinal Cord? Motor Neuron? Muscle
6. Which of The Following Statements Are True?

(I) Sudden Action in Response to Something in The Environment Is Called Reflex Action

(II) Sensory Neurons Carry Signals from Spinal Cord to Muscles

(III) Motor Neurons Carry Signals from Receptors to Spinal Cord

(IV) The Path Through Which Signals Are Transmitted from A Receptor to A Muscle or A Gland Is Called Reflex Arc

 - (I) And (II)
 - (I) And (III)
 - (I) And (IV)
 - (I), (II) And (III)
7. Which of The Following Statements Are True About the Brain?

(I) The Main Thinking Part of Brain Is Hind Brain

(II) Centers of Hearing, Smell, Memory, Sight Etc. Are Located in Fore Brain.

(III) Involuntary Actions Like Salivation, Vomiting, Blood Pressure Are Controlled by The Medulla in The Hind Brain

(IV) Cerebellum Does Not Control Posture and Balance of The Body

 - (I) And (II)
 - (I), (II) And (III)
 - (II) And (III)
 - (III) And (IV)
8. Posture and Balance of The Body Is Controlled By
 - Cerebrum
 - Cerebellum

- Medulla
 - Pons
9. Spinal Cord Originates From
- Cerebrum
 - Medulla
 - Pons
 - Cerebellum
10. The Movement of Shoot Towards Light Is
- Geotropism
 - Hydrotropism
 - Chemotropism
 - Phototropism
11. The Main Function of Abscissic Acid in Plants Is To
- Increase the Length of Cells
 - Promote Cell Division
 - Inhibit Growth
 - Promote Growth of Stem
12. Which of The Following Is Not Associated with Growth of Plant?
- Auxin
 - Gibberellins
 - Cytokinin's
 - Abscissic Acid
13. Iodine Is Necessary for The Synthesis of Which Hormone?
- Adrenaline
 - Thyroxin
 - Auxin
 - Insulin
14. Choose the Incorrect Statement About Insulin
- It Is Produced from Pancreas
 - It Regulates Growth and Development of The Body
 - It Regulates Blood Sugar Level
 - Insufficient Secretion of Insulin Will Cause Diabetes
15. Select the Miss-Matched Pair
- Adrenaline: Pituitary Gland
 - Testosterone: Testes
 - Estrogen: Ovary
 - Thyroxin: Thyroid Gland
16. The Shape of Guard Cells Changes Due to Change in The
- Protein Composition of Cells
 - Temperature of Cells
 - Amount of Water in Cells
 - Position of Nucleus in The Cells
17. The Growth of Tendril in Pea Plants Is Due To
- Effect of Light
 - Effect of Gravity
 - Rapid Cell Divisions in Tendrilled Cells That Are Away from The Support
 - Rapid Cell Divisions in Tendrilled Cells in Contact with The Support
18. The Growth of Pollen Tubes Towards Ovules Is Due To
- Hydrotropism
 - Chemotropism
 - Geotropism
 - Phototropism
19. The Movement of Sunflower In Accordance With The Path of Sun Is Due To
- Phototropism
 - Geotropism

- Chemotropism
 - Hydrotropism
20. The Substance That Triggers the Fall of Mature Leaves and Fruits from Plants Is Due To
- Auxin
 - Gibberellin
 - Abscisic Acid
 - Cytokinin

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www.olympiadhelper.com**