

Name: _____	Subject: Biology	Class: 12 <sup>th</sup>	Time: 80 minutes	Total Marks:	<b>40</b>
Chapter No.17		MJDEXPERT.COM		Obtained marks	

**Note:** Please attempt any 10 short questions from Question 2. Also, attempt both parts of Question 3. Cutting and removal of any content is strictly prohibited.

**Q#1 Encircle the Correct Option (10 x 1 = 10)**

**1. Which plant hormone helps extend the life of fresh leaf crops?**

- A) Auxin    B) Cytokinins    C) Ethylene    D) Gibberellins

**2. Neuronal membranes are highly active in which of the following?**

- A) Potassium Pump    B) Sodium Pump    C) Both A and B    D) None of these

**3. What constitutes a nerve?**

- A) Collection of Neurons    B) Concentration of Axons    C) Bundle of Axons    D) Bundles of Dendrites Wrapped in Connective Tissue

**4. Which of the following is not related to the others?**

- A) Cretinism    B) Diabetes Mellitus    C) Myxedema    D) None of these

**5. What does the term "CNS" refer to?**

- A) Brain and Spinal Cord    B) Spinal Cord    C) Brain    D) Motor Neuron

**6. What is a hormone?**

- A) Organ    B) Activity    C) Chemical Messenger    D) All of the Above

**7. In which year was Alzheimer's disease first described?**

- A) 1905    B) 1807    C) 1707    D) 1907

**8. Which gland is located on top of each kidney?**

- A) Thyroid    B) Adrenal    C) Parathyroid    D) Pituitary

**9. Who introduced the concept of instincts in animal behavior?**

- A) Darwin in 1869    B) Darwin in 1759    C) Darwin in 1859    D) Mendel in 1859

**10. Which form of learning is referred to as "stemplast"?**

- A) Imprinting    B) Latent Learning    C) Insight Learning    D) None of These

**Q #2 Short Questions (2 x 10 = 20)**

1. Explain the differences between CNS and PNS.
2. What are some commercial applications of auxins?
3. Provide an overview of Alzheimer's disease.
4. What is a receptor? Explain thermoreceptors.
5. Define membrane potential and resting membrane potential.
6. Describe the process of synaptic transmission.
7. Contrast imprinting with habituation.
8. What is a feedback mechanism?
9. Explain the concepts of reflexes and instincts.
10. What is diabetes mellitus?

**Q #3 Long Questions (2 x 5 = 10)**

1. Describe the structure and function of the adrenal gland.
2. Provide a detailed explanation of the human brain.