



**UNIVERSITY OF NORTH BENGAL**  
B.Sc. Honours 3rd Semester Examination, 2020

**CC6-ZOOLOGY**

**ANIMAL PHYSIOLOGY: CONTROLLING AND COORDINATING SYSTEMS**

Full Marks: 40

**ASSIGNMENT**

*The questions are of equal value.  
The figures in the margin indicate full marks.*

**Answer any four questions**

10×4 = 40

1. Describe the structure and functions of muscular tissues.
2. Write about the origin of action potential and the propagation of nerve impulse in the unmyelinated neuron.
3. Describe synaptic transmission of nerve impulse through a chemical synapse.
4. Describe the molecular and chemical basis of contraction of skeletal muscles.
5. Name the hormones secreted from different zones of adrenal cortex and discuss about their functions.
6. Describe the role of male-hormones in reproduction.
7. Describe the signal transduction pathway of any steroidal hormone.
8. Describe in detail about the G-protein mediated signal transduction process of a peptide hormone.

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