

8. Explain role of parathyroid and thyroid hormone in calcium regulation.

**Exam. Code : 103204**  
**Subject Code: 1307**

**B.A./B.Sc. 4<sup>th</sup> Semester**

**ZOOLOGY**

**ZOO-IV B : Animal Physiology**

Time Allowed—2 Hours]

[Maximum Marks—35

**Note** :— There are **Eight** questions of equal marks. Candidates are required to attempt any **Four** questions.

1. i) Explain the concept of oxygen dissociation curve of haemoglobin.  
ii) Explain the Haldane Effect and control of breathing.
2. i) Define extra and intracellular digestion.  
ii) Explain and follow the path of carbohydrate digestion in the mammalian gastro-intestinal tract.
3. Explain in detail various mechanisms of reabsorption in kidney.
4. i) Differentiate between haemopoiesis and homeostasis.  
ii) Give an account on blood clotting in man.
5. Give an account of molecular mechanism of muscle contraction.
6. What are neurotransmitters? Explain their role with help of an example.
7. i) Differentiate between reflex action and instinct.  
ii) Define learning. Explain its types.