## Mode of Examination: Open Book Examination

Unique Paper Code : 42234301

Name of the Paper : Physiology and Biochemistry

Name of the Course : B.Sc. (P) Life Science Zoology Examination, 2021-LOCF

Semester : Semester- III, Theory Examination

Duration : 3 hours

Maximum Marks : 75 Marks

### **Instruction for Candidates**

1. Write your Roll No., Name of the paper, Course, Semester, UPC and Date of examination on the first page of answer sheet.

- 2. Attempt ANY FOUR questions in all, TWO each from Section A and Section B.
- 3. Use separate sheet for **Section A** and **Section B**.
- 4. All questions carry equal marks.
- 5. Draw well labelled diagrams wherever required.

#### **SECTION A**

- Q1.Define pacemaker. Write in detail the origin, conduction and regulation of heartbeat. Describe the various events associated with the Cardiac cycle. (18.75)
- Q2.Explain the detailed coucture of pituitary gland. Give the names and functions of hormones secreted wit. Discuss the hormonal control of the menstrual cycle. (18.75)
- Q3.Describe the mechanism of dilute urine formation in kidney nephron. Add a note on hormones of adrenal gland. (18.75)

# **SECTION B**

- Q4.Describe the various steps involved in oxidation of fatty acids. Discuss in brief components of Electron Transport Chain. (18.75)
- Q5. What is an enzyme? Explain the action of enzymes with special reference to induced fit theory. Derive the Michaelis Menten equation for single enzyme single substrate reaction. (18.75)
- Q6. Give an account of Citric Acid Cycle. Explain the process of glycogenolysis. How is it regulated? (18.75)

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