

**DHANAMANJURI UNIVERSITY**

**JUNE – 2021**

**Name of Programme : B.Sc Zoology Honours**

**Semester : IV Semester**

**Paper Code : ZOO - 204**

**Paper Title : Biodiversity, Environment Biology and Applied Zoology**

**Full Marks : 50**

**The figures in the margin indicate full marks for the questions. Answer all questions.**

1. What is Lac culture? Describe the life cycle of *Laccifer lacca*. (4+6=10)

OR

Give an account of diseases found in Silkworm. (10)

2. What are the various abiotic factors of environment? Write any 5 significant extreme thermal adaptations of plants and animals. (5+5=10)

OR

Explain Liebig's law of minimum and Shelford's law of tolerance with examples. (5+5=10)

3. What is air pollution? What are the different sources of air pollution? Describe the effects of air pollution on human life? (2+4+4=10)

OR

What is hypophysation? What are the precautions and the steps for Induced breeding by hypophysation in fishery? (2+8=10)

4. Name the State fish of Manipur. Explain why North East India is regarded as Potential Ornamental fish centre of India? (1+9=10)

OR

Describe briefly the technique of Aerial Census method with diagram. (10)

5. What is Biogeochemical cycle? Explain nitrogen cycle with a neat labelled diagram. (3+7=10)

OR

Write short notes on **any two** of the following

a) Biodiversity hotspots

b) Sanctuaries

c) National Parks

d) Ramsar Sites

(5+5=10)