



'সমানো মন্ত্র: সমিতি: সমানী'

**UNIVERSITY OF NORTH BENGAL**

B.Sc. Honours 6th Semester Examination, 2022

**DSE-P4-ZOOLOGY (INSTRUCTION)**

Time Allotted: 2 Hours

Full Marks: 20

**INSTRUCTION TO EXAMINERS**

**GROUP-A**

**ANIMAL BIOTECHNOLOGY**

1. Provide photographs of any two biotechnological techniques from the truncated syllabus.

Principle-  $2\frac{1}{2}$

Application-  $2\frac{1}{2}$

2. Plasmid Isolation-

Principle- 2

Procedure- 3

**OR**

Linear restriction map construction-

Principle- 2

Procedure- 3

**GROUP-B**

**FISH AND FISHERIES**

1. Determination of pH-

Fundamentals- 3

Work out- 5

Comment- 2

2. Identification of specimen from the syllabus (Any *two*).

Identification of correct species-  $\frac{1}{2}$

Reasoning- 2

**GROUP-C**

**BIOLOGY OF INSECTS**

1. Provide the life cycle stages of mosquito & silk moth.

Identification of correct stage- 2

Characters- 3

**OR**

Methodology of insect collection, preservation and identification.

Collection- 2

Preservation- 2

Identification- 1

2. Identification of caste of *Apis* and different parts of insects.

A- Any part of insects-

B- Any caste of *Apis*

Identification- 1

Reasoning- 4

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