



'समानो मन्त्रः समितिः समानी'

UNIVERSITY OF NORTH BENGAL

B.Sc. Honours 4th Semester Examination, 2022

GE2-P2-ZOOLOGY (INSTRUCTION)

Time Allotted: 2 Hours

Full Marks: 20

INSTRUCTION TO EXAMINERS

1. The question paper contains four Groups: GROUP-A, GROUP-B, GROUP-C and GROUP-D. The candidates are supposed to answer any *one* from *four* groups.
2. All examiners are requested to follow the instructions given below and submit a "Key to Questions" along with answer scripts.

GROUP-A

HUMAN PHYSIOLOGY

Q1: Estimation of Haemoglobin

Principle: 2

Work out: 4

OR

Blood grouping:

Work out: 3

Principle: 3

Q2: Identification of Histological sections (Any three from the syllabus)

GROUP-B

FOOD, NUTRITION AND HEALTH

Q1: Detection of adulteration:

Work out: 5

Comment: 1

OR

Gram STAINING:

Principle: 2

Work out: 4

Q2: Identification: Any three stored grain pests from the syllabus

GROUP-C
ENVIRONMENT AND PUBLIC HEALTH

- Q1: Determination of pH:
Fundamentals: $1\frac{1}{2}$
Work out: 2
Comment: $1\frac{1}{2}$
- Q2: Estimation of chlorinity:
Work out: $3\frac{1}{2}$
Principle: $1\frac{1}{2}$

OR

- Estimation of total hardness
Work out: $3\frac{1}{2}$
Principle: $1\frac{1}{2}$
- Q3: Report on pollution testing centre
Report: 3
Viva: 2

GROUP-D
ANIMAL CELL BIOTECHNOLOGY

- Q1: GEL Electrophoresis of DNA
Principle: 3
Procedure: 4
- Q2: Biotechnological techniques
Provide photograph of any two from the syllabus
Principle: 2
Application: 2

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