

Roll No.....

Total No. of Questions : 05

Total No. of Printed Pages : 02

Code No. : B-276(B)

Annual Examination - 2017

B.Sc.-III

ZOOLOGY

Paper-I

ECOLOGY ENVIRONMENTAL BIOLOGY TOXICOLOGY

MICROBIOLOGY AND MEDICAL ZOOLOGY

Max.Marks : 50

Min.Marks : 17

Time : 3 Hrs.

1. B Zala Sy c Syac eyc y Sy Zala Nv Sylak n ysa Zala Sy ; Sy ytala Nen

Note : Attempt one question from each unit. All questions carry equal marks.

Unit-I

Zala-1. Klay Puà i Aaw Syac Zasawm Sy Ac wawct Pu Syac Syab Sya w/da Sy Emç Nw Klay Puà aha Da/à Sy Syac Syab Sya w/da Sylak n

Explain the main causes or factors affecting population density and also the mechanisms to regulate it.

OR

ybaam a'pq/aa avah (Write short notes on) B

1) wauza Ax/à (Air Pollution)

2) Aac 1pk/à j Sy (Nitrogen cycle)

Unit-II

Zala-2. qae Onan Sy mDa t qax/à DmE yc ; aq 'ua yt l mç Nen qax/à DmE apt e yk aè Zawañ Sy ac avas Aa ta b/ab Syl y Nauma ycdq p Sylak n

What do you mean by Trophic levels in Ecosystem? Explain the energy flow through these trophic levels with the help of various Ecological models.

P.T.O.

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OR

- yĪāġm ā'ġq/ā'ā'vāh¥ (Write short notes on) ß
- 1) ħāu ōġvā¥wġhāu kāv (Food chain and food web)
- 2) qāĒŌnānšyāqĒāt »p(Ecological pyramids)

Unit-III

Zāġā-3. kġmāāvŷ yç' uā ytl mçġĒ? çġšy āvāsġā ZāšyĒ, kŵ Ēāyāuāšy'ā'ā' ¥wġtāġw qĒ qŵġāwāvçZāsāwāšyā w/āā šyġāç ¥ ġ

What do you mean by animal poisons? Describe their various types, biochemical composition and effects on human beings.

OR

- yĪāġm ā'ġq/ā'ā'vāh¥ (Write short notes on) ß
- 1) rā'ġā'v³t (Botulism)
- 2) āvŷ šyāw'ā'syĒĒ (Classify Toxicants)

Unit-IV

Zāġā-4. Āō ; āĒ Āō šy Zātġ ġ ā'ā'šy Ē³qāāqĒ yŵtkāwāšyġ sātšyā šyā yāāĒĒĒ w/āā šyġāç ¥ ġ

Explain with examples about the role of micro organisms on milk and milk products of industrial importance.

OR

- yŵt kāvšyġ ōĒā ¥1/2 ġrāuāġ'šy mšā wĒ yāā šy Ē³qāāā šyā w/āā šyġāç ¥ ġ
- Describe the production of antibiotics and vaccines with the help of microbiology.

Unit-V

Zāġā-5. tġāu tġqāġ āvŷā/ā'kālām ¥wġqāġ kāvā/ā'kālām Ēāçāp šyĒšyā¥wġvŵā/ā'šy rāçç tġā'vāh¥ ġ

Write about any five, viral and bacterial diseases, their causal organisms and symptoms developed in humans.

OR

- yĪāġm ā'ġq/ā'ā'vāh¥ (šyçĒāā) /Write short notes (any two)ß
- i) »šyāšyvy (Dracunculus)
- r) Ēāçāwā'šy šyġ¹p (Vector Insects)
- y) ā'ġā'yātā (Trypanosoma)

OR

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