

C 63103

(Pages 2)

Name.....~~54~~.....

Reg. No.....

SECOND SEMESTER M.Sc. DEGREE EXAMINATION, JUNE 2014

(CUCSS)

Zoology

ZO 2CT 05—ECOLOGY AND ETHOLOGY

Time : Three Hours

Maximum : 36 Weightage

I. Answer all *fourteen* questions :

- 1 Explain what a 'Food Web' is.
- 2 What is meant by "Green House Effect" ?
- 3 Briefly explain "Logistic growth rate".
- 4 What is the significance of Age structure of a population ?
- 5 What is the significance of "Simpson index" ?
- 6 Explain what Monoclimax is.
- 7 Explain the significance of Food Chain.
- 8 What is a 'Realized niche' ?
- 9 Explain the importance of 'Key Stone' species.
- 10 What is the significance of 'Waggle dance' ?
- 11 Explain what 'Altruism' is.
- 12 What is 'Ritualization' ?
- 13 What are 'Sign stimuli' ?
- 14 What are 'Fixed Action Patterns' ?

(14 × 1 = 14 weightage)

II. Answer any *seven* of the following :—

- 15 Give a concise account on growth and regulation of "human population".
- 16 Comment on the importance of "Remote sensing" methods.
- 17 Explain latitudinal gradients in diversity.
- 18 Explain the "ecological significance" of "Resource partitioning".
- 19 Give an account of the 'Energetics' of an ecosystem.

Turn over

- 20 Explain the ecological features of mangrove ecosystem.
- 21 What are 'Ethograms' ? Explain their significance.
- 22 Give an account of the 'Navigation modalities' met with among animals.
- 23 Comment on the behavioural aspects of domestication.
- 24 Briefly explain the phenomenon of 'Motivation'.

(7 × 2 = 14 we

III. Answer any *two* of the following :—

- 25 Give an account of the social organization of Primates.
- 26 Discuss the causes and impact of Global climatic change.
- 27 Give an outline of the conservation and Management strategies in the Indian conte
- 28 Enumerate the phenomenon of "Parental care".

(2 × 4 = 8 we