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G – 1420

Reg. No. :

Name :

Sixth Semester B.Sc. Degree Examination, April 2019
First Degree Programme Under CBCSS
Branch – ZOOLOGY
Core Course – XI
ZO 1643 : Ecology, Ethology, Evolution and Zoogeography
(Common for 2013 and 2014 Admission)

Time : 3 Hours

Max. Marks : 80

I. Answer **all** questions in a word or **one** or **two** sentences. **Each** question carries **one** mark :

- 1) Ecosystem
- 2) Motivation
- 3) Genetic drift
- 4) Cosmopolitan distribution
- 5) Pheromones
- 6) Orthogenesis
- 7) Imprinting
- 8) Pollution
- 9) Ecotone
- 10) Palaentology.

(10×1=10 Marks)

II. Answer **any eight** questions. **Each** question carries **two** marks :

- 11) Distinguish between bradytely and tachytely.
- 12) Social groups in mammals.
- 13) Bioremediation.
- 14) Habituation.
- 15) Biological species concept.
- 16) Cybernetics and ecosystem.

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- 17) Factors affecting animal distribution.
- 18) Ecological indicators.
- 19) Insular fauna.
- 20) Hardy-Weinberg law.
- 21) Endangered and vulnerable species.
- 22) Biogeochemical cycles.

(8×2=16 Marks)

III. Answer **any six** questions. **Each** question carries **four** marks :

- 23) Explain adaptive radiation with example.
- 24) Give an account of limiting factors.
- 25) Explain biotic and abiotic factors of pond ecosystem.
- 26) Briefly explain green chemistry.
- 27) Mention contributions of Wallace in Darwin theory.
- 28) Give an account of various types of learning.
- 29) Write briefly on carbon cycle.
- 30) Give a brief account on national parks in Kerala.
- 31) Explain characteristic features of Western Ghats.

(6×4=24 Marks)

IV. Answer **any two** questions. **Each** question carries **fifteen** marks :

- 32) Describe anthropogenic impact on ecosystem.
- 33) Write an account on animal distribution and add a note on factors and barriers affecting distribution.
- 34) Elaborate evolution of man with ancient and recent record.
- 35) Write an essay on attributes of population.

(2×15=30 Marks)