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B—99—2019

FACULTY OF SCIENCE

B.Sc. (Second Year) (Fourth Semester) EXAMINATION

MARCH/APRIL, 2019

(CBCS/CGPA Pattern)

BOTANY

Paper-IX

(Ecology and Environmental Biology)

(MCQ & Theory)

(Friday, 29-03-2019)

Time : 2.00 p.m. to 4.00 p.m.

Time—2 Hours

Maximum Marks—40

N.B. :— (i) Attempt All questions.

(ii) All questions carry equal marks.

(iii) Illustrate your answers with suitable diagrams.

MCQ

1. (i) The plants growing in warm habitat are called as.....
- (a) Microtherms (b) Hekistotherms
(c) Megotherms (d) None of these
- (ii) The study of application of ecological concepts to human needs is..... ecology.
- (a) Habitat (b) Evolutionary
(c) Applied (d) Dynamic
- (iii) The plants growing on surface of rocks are.....
- (a) Lithophytes (b) Psilophytes
(c) Sclerophytes (d) Hydrophytes

P.T.O.

- (iv) Opuntia and Aloe are.....xerophytes.
- (a) Succulent (b) Non-succulent
- (c) Ephemeral (d) None of these
- (v) The group of similar plants belonging to same species in a habitat is.....
- (a) Genus (b) Population
- (c) Community (d) Division
- (vi)is the degree of dispersion of individuals of a species in a community.
- (a) Density (b) Abundance
- (c) Dominance (d) Frequency
- (vii) The sum of all ecosystems on the earth is known as.....
- (a) Lithosphere (b) Troposphere
- (c) Atmosphere (d) Biosphere
- (viii) The conversion of N_2 into organic form is called as.....
- (a) Ammonification (b) Nitrogen fixation
- (c) Nitrification (d) Denitrification
- (ix) The causes of water pollution are.....
- (a) Urbanization (b) Industrialization
- (c) Increased population (d) All of these
- (x) The destruction of forest is.....
- (a) Afforestation (b) Deforestation
- (c) Erosion (d) Pollution

Theory

2. What is soil ? Describe the proces of soil formation. 10

Or

Write notes on :

- (a) Light as climatic factor
- (b) Hydrilla stem.

3. What are halophytes ? Describe various adaptations in halophytes.

Or

Write notes on :

- (a) Biotic Components of Ecosystem
- (b) Food chain.

4. Describe water cycle. 10

Or

Write notes on :

- (a) Afforestation
- (b) Food web.