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M.Sc. (III[rd] Semester) Examination, 2021

BOTANY

(Principles of Ecology)

Time Allowed : Three Hours

Maximum Marks : 70

Note : Attempt all questions as directed.

SECTION - A

Note : Attempt any ten questions. Each question carries one mark. **1×10=10**

Q. 1. Objective type question :

(i) The highest emitter of carbon dioxide in the world is _____

(ii) Chernobyl disaster was occurs in the year of _____

(iii) _____ pine tree species is known as living fossil.

(iv) In an ecotone, the species which become abundant are called _____

(v) A group of plants within a species genetically adapted to a particular habitat is known as _____

(vi) The species that invade new territory to form a colony is _____

(vii) The succession takes place because of :

(a) Intra specific competition

(b) Inter specific competition

(c) Retrogression

(d) None

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(viii) How many mega-bio-diverse countries have been identified in the world ?

(a) 35

(b) 25

(c) 17

(d) 14

(ix) The world is divided into phyto-geographic regions :

(a) 40

(b) 20

(c) 8

(d) 4

(x) In tripartite partnership of UNEP, World Bank and UNEP have mega environment project :

(a) NATP

(b) GEF

(c) INDOEX

(d) ECOPAN

(xi) The amount of solar energy used in primary production is :

(a) 90%

(b) 50%

(c) 10%

(d) 2%

(xii) The biogeographic zones in India :

(a) 10

(b) 12

(c) 15

(d) 16

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SECTION - B

(Very Short Answer Type Questions) (25-30 words)

Note : Attempt any five questions. Each question carries 2 marks. **5×2=10**

Q. 2. (i) Ecology

(ii) Evolution

(iii) Environment

(iv) Population

(v) Community

(vi) Niche

(vii) Biodiversity

SECTION - C

(Short Answer Type Questions) (250 words)

Note : Attempt any five questions. Each question carries 4 marks. **5×4=20**

Q. 3. (i) Biogeochemical cycles

(ii) Molecular ecology

(iii) Evolutionary ecology

(iv) Seed and seedling ecology

(v) Population dynamics and growth curves

(vi) Environmental stress management

(vii) Global climate change

SECTION - D

(Long Answer Type Questions) (More than 500 words)

Note : Attempt any three questions. Each question carries 10 marks. **3×10=30**

Q. 4. (i) Explain the structure and function of ecosystem.

(ii) Throw the light on ecological succession with suitable examples.

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(iii) Explain the biodiversity conservation along with global and Indian legal framework.

(iv) Describe the various forms of pollution along with mitigation measures.

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