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Reg. No. : .....

Name : .....

First Semester M.Sc. Degree Examination, March 2018
Branch : ENVIRONMENTAL SCIENCES
ES 211 – Environmental Biology and Ecosystem Dynamics
(2013 Admission Onwards)

Time : 3 Hours Max. Marks : 75

I. Answer **any 10** of the following : **(10×2=20 Marks)**

1) Ecosystem
2) Forest web
3) Ecological niche
4) Tundra biome
5) Characteristics of a population
6) Lentic biota
7) Oxygen cycle
8) Concept of limiting factors
9) Symbiosis
10) Stratification of sea
11) Carrying capacity
12) Succession and climax.

II. Answer **any 5** of the following : **(5×5=25 Marks)**

13) What is Liebig's law of the minimum ? Explain the combined concept of limiting factors.
14) Discuss the role of light as an important ecological factor.
15) Write an account of intra-specific relationships among organisms.

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16) Explain biogeochemical cycle with a note on the main types of biogeochemical cycles.

17) Briefly describe the various factors which severely contribute to the dynamics of population.

18) Give a brief description of freshwater habitat.

19) Briefly describe life history strategies in ecology.

III. Answer **any two** of the following : **(2×15=30 Mark**

20) Describe the role of abiotic factors as important ecological factors.

21) Review the global water cycle. What forces maintain it and how do organisms participate in this cycle ?

22) Write an essay on the influence of man on environment and its effect on the equilibrium of environment.

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