

**M.Sc. (Botany) Semester - 2 (CBCS) Examination**  
**March/April– 2019 (New Course)**  
**Environmental Science (CORE)**

Time: 2:30 Hours

Marks: 70

**Instructions:**

1. All questions are compulsory.
  2. Figures to the right indicate marks.
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**Que. 1 Answer the Following. (Any seven out of ten question.) (14)**

- (1) What is environmental science?
- (2) Why habitat conservations are important?
- (3) Explain resource partitioning.
- (4) Describe demes and dispersal.
- (5) What are adaptations of herbivore?
- (6) Explain energy flow in any of the ecosystem.
- (7) "The amount of total energy passed from one level to the next is decreased" agree or disagree? Why?
- (8) What are the strategies of pray to escape from predator?
- (9) What is potable water? What parameter should be tested?
- (10) Explain Air Quality Standards.

**Que. 2 Answer the Following. (Any two out of three) (14)**

- (1) Explain three Species Interactions.
- (2) Describe concept of metapopulation in detail
- (3) Make a note on population regulation; life history strategies

**Que. 3 Answer the Following. (14)**

- (1) Explain community structure and attributes.
- (2) Write short note on Ecological Succession.

**[OR]**

**Que. 3 Answer the Following.**

- (1) Write short note on Terrestrial ecosystem.
- (2) Describe ecosystem structure and function.

**Que. 4 Answer the Following. (Any two out of three) (14)**

- (1) Describe in detail: atmosphere, hydrosphere.
- (2) Write about Scope of Environmental science in detail.
- (3) Make note on any three biomes of the world with a list of fauna and flora.

**Que. 5 Write short note on any two out of four. (14)**

- (1) Natural and anthropogenic sources of air pollution.
- (2) Effluent treatment plant (ETP).
- (3) Ozone depletion and global warming.
- (4) Application of GIS in Environmental management.

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