

This question paper contains 3 printed pages]

**AO—73—2018**

**FACULTY OF SCIENCE**

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

**MARCH/APRIL, 2018**

**(CBCS/CGPA)**

**BOTANY**

**Paper IX**

**(Ecology and Environmental Biology)**

**(MCQ+Theory)**

**(Tuesday, 27-3-2018)**

**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) ..... is the science of Ecosystem.

(a) Anatomy

(b) Embryology

(c) Ecology

(d) Histology

(ii) ..... is an Edaphic factor.

(a) Light

(b) Temperature

(c) Soil

(d) Atmosphere

(iii) The plants that grows in or near water are called as .....

(a) Hydrophytes

(b) Xerophytes

(c) Halophytes

(d) None of these

(iv) Trees, lianas, large herbs and shrubs are included in .....

(a) Phanerophytes

(b) Cryptophytes

(c) Hydrophytes

(d) None of these

**P.T.O.**

- (v) The drought erading or drought escaping plants are known as .....
- (a) Hydrophytes (b) Ephemerals  
(c) Aquatics (d) None of these
- (vi) The quantitatives analysis of vegetation can be done by .....
- (a) Transect method (b) Quadrante method  
(c) Loop method (d) All of these
- (vii) Ecological succession that occurs with maximum amount of water is called .....
- (a) Xerosere (b) Lithosere  
(c) Halosere (d) Hydrosere
- (viii) The microorganism that produces harmful effect in water are called as .....
- (a) Chemopollutants (b) Biopollutants  
(c) Physicopollutants (d) None of these
- (ix) Air pollution is caused by .....
- (a) Urbanization (b) Industrialization  
(c) Increased traffic (d) All of these
- (x) The loss of fertile layer of soil mainly by air and water is .....
- (a) Conservation (b) Erosion  
(c) Polarization (d) Degradation

(Theory)

2. Describe light and temperature as climatic factor.

10

Or

Write notes on :

- (a) Composition of soil  
(b) Casuarina stem.

3. Give general characters of halophyte.

10

*Or*

Write notes on :

(a) Pond ecosystem

(b) Food chain.

4. What are biogeochemical cycles ? Describe in brief biogeochemical cycles.

10

*Or*

Write notes on :

(a) Chipko movement

(b) Food web.