

This question paper contains **3** printed pages]

**R—77—2017**

**FACULTY OF SCIENCE**

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

**MARCH/APRIL, 2017**

**BOTANY**

**Paper IX**

**(Ecology and Environmental Biology)**

**(MCQ+Theory)**

**(Monday, 3-4-2017)**

**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) Choose the correct answer for MCQ.

**(MCQs)**

1. Multiple Choice Questions : 10

- (i) Group of non-living or physical factors are termed as .....
- (a) Abiotic (b) Biotic  
(c) Both (a) and (b) (d) None of these
- (ii) The process of formation of mature soil is known as .....
- (a) Kinesis (b) Pedogenesis  
(c) Symbiosis (d) None of these
- (iii) The plants that are adapted to drought are termed as .....
- (a) Halophytes (b) Xerophytes  
(c) Hydrophytes (d) None of these
- (iv) Pneumatophores are found in .....
- (a) Hydrophytes (b) Xerophytes  
(c) Halophyte (d) Bryophytes

P.T.O.

- (v) All the living components in an ecosystem are called .....  
community.
- (a) Biotic (b) Abiotic  
(c) Both (a) and (b) (d) None of these
- (vi) The plants bearing rhizome, bulb, stem tubers etc. are included in .....
- (a) Phanerophyte (b) Xerophyte  
(c) Hydrophyte (d) Cryptophytes
- (vii) The pyramid of energy is .....
- (a) Inverted (b) Upright  
(c) Inclined (d) All of these
- (viii) The life supporting gas in air is .....
- (a) N<sub>2</sub> (b) O<sub>2</sub>  
(c) CO<sub>2</sub> (d) He
- (ix) Soil erosion can be prevented by .....
- (a) Deforestation (b) Afforestation  
(c) Grazing (d) None of these
- (x) Silicosis is caused by air pollution by :
- (a) Lime (b) Silica  
(c) Carbon-monoxide (d) Lead

**(Theory)**

2. Describe temperature and light as climatic factors.

Or

Write notes on :

- (a) Soil profile  
(b) Anatomical adaptations in hydrophytes.

3. Describe morphological and anatomical adaptations in xerophytes.

*Or*

Write notes on :

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

4. What is air pollution ? Describe causes of air pollution.

*Or*

Write notes on :

- (a) Grassland ecosystem
- (b) Water cycle.