

# SELF ASSESSMENT TEST

## (Chapter 14 : Ecosystems and energy flow)

Time : 1 Hour]

[ Marks : 20

### Notes :

1. All questions are compulsory.
2. Figures to the right indicate full marks.

### SECTION – A

#### Q. 1. Multiple Choice Questions (MCQ) :

(1 mark each)

- (i) Secondary consumers are ..... .
- (a) herbivores (b) producers  
(c) carnivores (d) autotrophs [1]
- (ii) Give the term used to express a community in its final stage of succession?
- (a) End community (b) Final community  
(c) Climax community (d) Dark community [1]
- (iii) Which of the following is most often a limiting factor of the primary productivity in any ecosystem?
- (a) Carbon (b) Nitrogen (c) Phosphorus (d) Sulphur [1]
- (iv) In which strata of any aquatic body there will be maximum photosynthesis?
- (a) Bottom deposits (b) Middle strata of a water body  
(c) Near coastal region (d) The depth till where sunlight can reach [1]

#### Q. 2. Very Short Answer Questions (VSA) :

(1 mark each)

- (i) Name the reservoir and sink of carbon in carbon cycle. [1]
- (ii) Give an example of ecosystem which shows inverted pyramid of numbers. [1]

### SECTION – B

#### Q. 3. Short Answer Questions (SA - I) :

(2 marks each)

- (i) Match the columns :

Column 'A'	Column 'B'	[2]
(1) Pioneer species	(a) Entire gradient of communities	
(2) Climax species	(b) Spatial pattern	
(3) Succession	(c) <i>Quercus</i>	
(4) Sere	(d) Crustose lichen	

- (ii) Distinguish between: Upright and inverted pyramid of biomass. [2]

### SECTION – C

#### Q. 4. Short Answer Questions (SA - II) :

(3 marks each)

- (i) Describe pond as a small ecosystem. [3]
- (ii) Explain the following terms with reference to ecological succession.  
(1) Seral stages. (2) Pioneers. (3) Hydrosere. [3]

**SECTION – D**

**Q. 5. Long Answer Questions (LA) :**

**(4 marks)**

What are the different components of ecosystem?

**[4]**

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