

**5/H-62 (vi) (Syllabus-2015)**

**2 0 1 7**

( October )

**BOTANY**

( Honours )

**( Ecology and Conservation Biology )**

(BOTH-502)

*Marks : 56*

*Time : 3 hours*

*The figures in the margin indicate full marks  
for the questions*

Answer Question No. 1 which is compulsory and  
four questions, selecting **one** from each Section

1. Write short notes on the following :  $4 \times 4 = 16$

- (a) Biomes and biosphere
- (b) Survivorship curves
- (c) Food chain
- (d) Greenhouse effect

( Turn Over )

( 2 )

SECTION—I

2. What are ecological factors? Describe edaphic factors and their significances in plant distribution.  $2+6+2=10$
3. What are ecological adaptations? Describe the ecological adaptations of hydrophytes and give suitable diagram wherever necessary.  $2+6+2=10$

SECTION—II

4. Differentiate between primary succession and secondary succession. Discuss briefly the different stages of ecological succession in xeric conditions.  $4+6=10$
5. What are population interactions? Give a general account of the various types of population interactions in nature.  $2+8=10$

SECTION—III

6. Define ecological pyramids. Describe the pyramids of biomass and energy in a grassland ecosystem.  $2+4+4=10$
7. What do you understand by biogeochemical cycle? Give an account of phosphorus cycle in nature.  $2+8=10$

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( Continued )

( 3 )

SECTION—IV

8. What are the sources of water pollution? Discuss in detail the effects and control measures of water pollution.  $3+4+3=10$
9. Differentiate between *ex situ* and *in situ* conservations. Write a brief account of a national park in India.  $4+6=10$

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