

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

**2019**

**( October )**

**BOTANY**

**( Honours )**

**[ BOTH-502 (T) ]**

**( Ecology and Conservation Biology )**

**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 notes on the following : 4×4=16**

**(a) Difference between population and community**

**(b) Influence of natality and mortality on population growth**

**(c) Grazing food chain**

**(d) Cryopreservation**

**( Turn Over )**

( 2 )

SECTION—I

2. Describe the process of soil formation. 10
3. What are ecological adaptations? Describe the adaptation of hydrophytes and give suitable diagrams wherever necessary.  $2+8=10$

SECTION—II

4. What are population interactions? Give accounts of symbiosis and parasitism in plants with suitable examples.  $2+4+4=10$
5. Differentiate between primary and secondary successions. Describe the different stages of succession.  $2+8=10$

SECTION—III

6. What are ecological pyramids? Describe the different types of ecological pyramids.  $1+9=10$
7. What is biogeochemical cycle? Give an account of the phosphorus cycle in nature.  $2+8=10$

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( Continued )

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SECTION—IV

8. Define greenhouse effect. Discuss the impact of global warming and mention remedial measures to control global warming.  $2+8=10$
9. What is water pollution? Describe its sources, effects and abatement.  $1+9=10$

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