



K18P 1352

Reg. No. : .....

Name : .....

**First Semester M.Sc. Degree (Reg./Suppl./Imp.)  
Examination, October 2018  
(2014 Admn. Onwards)  
BOTANY**

**BOT 1C04 : Environmental Science, Phytogeography and Forest Botany**

Time : 3 Hours

Max. Marks : 60

**Instruction :** Draw diagrams *wherever* necessary.

**SECTION – A**

1. a) Explain the objectives and management of Biosphere Reserve.

OR

b) Write an essay on centres and origin of diversity of plants.

2. a) Explain the causes, effects and control measures of 'Global warming'.

OR

b) Discuss the characteristics of population.

(2×8=16)

**SECTION – B**

Answer **any two** :

(2×6=12)

3. a) What is R and K selection ?

b) Explain the concept of meta population.

c) Discuss inter specific competition.

(1+2+3)

4. a) What is primary productivity ?

b) Explain the types and measurement of primary productivity.

c) Explain ecological niche.

(1+2+3)

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5. a) What is EIA ?  
b) Mention the steps involved in EIA.  
c) How equitable use of resources can be achieved ? (1+2+3)

**SECTION – C**

Answer **any six** : (6×3=18)

6. How water pollution can be controlled ?
7. Explain the concept of 'Social Forestry'.
8. Discuss the energy flow of an ecosystem.
9. Explain the role of pioneer and climax species.
10. Explain the levels of species diversity.
11. Explain the role of 'Botanical Gardens' in conservation.
12. Mention the biogeographic zones of India.
13. Explain symbiosis with examples.

**SECTION – D**

Answer **any seven** : (7×2=14)

14. Ecological Niche
15. El-Nino
16. UNCED
17. Hydrosere
18. Greenhouse effect
19. Sustainable indicators
20. Remote sensing.
21. Copenhagen summit.
22. Hot spot
23. Keystone species.