

B.Sc.(Part-II)(With Credits)-Regular-Semester 2012 Sem IV  
**B.Sc.2492 - Environmental Science-II : Paper-II (Forest & Wildlife)**

P. Pages : 2

Time : Three Hours



**GUG/W/16/5605**

Max. Marks : 50

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- Notes : 1. All questions are compulsory and carry equal marks.  
2. Illustrate the answers with suitable diagrams and examples.

1. Describe forest science w.r.t. concepts, need and scope of the subject. 10

**OR**

Explain general principles of Silviculture. What are ecological and physiological factors influencing vegetation?

2. Discuss in brief the threats to wildlife w.r.t. habitat destruction, urbanisation, and industrial pollution. 10

**OR**

Discuss working of following organisations for environmental protection.

- a) Greenpeace b) WWF

3. a) Describe forest as an ecosystem. 2½  
b) Write a short note on carbon sequestration. 2½  
c) Give salient features of wildlife Protection Act 1972. 2½  
d) What are self sufficient villages? 2½

**OR**

- e) Explain productivity of forest ecosystem.  
f) Write a brief note on stand structure in forest and its dynamics.  
g) What is the significance of wildlife?  
h) Briefly describe the salient features of society Act 1860.
4. a) What are the causes of forest fires? 2½  
b) Mention important steps of tissue culture technique. 2½  
c) Write salient features of project elephant. 2½  
d) Explain the working of Kerala Sastra Sahitya Parishad. 2½

**OR**

- e) How forest is monitored through remote sensing?
- f) What are the benefits of social forestry?
- g) Why project tiger is launched in India? Mention its features.
- h) Write the working and achievements of Tarun Bharat Sangh.

**5. Answer in 2-3 lines any ten.**

- a) What is nutrient cycle in forest? **1**
- b) What is a role of forest engineer in forest? **1**
- c) What is forest surveying? **1**
- d) Why Van Mahotsav is celebrated in India? **1**
- e) Write any two provisions of forest conservation Act 1980. **1**
- f) What is afforestation? **1**
- g) Define wildlife. **1**
- h) Enlist in-situ conservation measures of wildlife. **1**
- i) What is biosphere reserve? **1**
- j) What is the full form of JFM? **1**
- k) Mention non timber forest produce from Indian forest. **1**
- l) What is the aim of man and biosphere programme? **1**

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