

<b>CSM – 31/16</b>
<b>Forestry</b>
<b>Paper – II</b>

*Time : 3 hours*

*Full marks : 300*

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*The figures in the right-hand margin indicate marks.*

*Candidates should attempt Q. No. 1 from Section – A and Q. No. 5 from Section – B which are compulsory and **three** of the remaining questions, selecting at least **one** from each Section.*

### **SECTION – A**

1. Answer any **three** of the following :  $20 \times 3 = 60$ 
  - (a) What is the status of forests in relation to forest cover, growing stock etc. in Odisha as per the 2015 report of Forest Survey of India ?
  - (b) How deforestation leads to environment degradation ?
  - (c) Discuss the significance of forestry to the Indian Economy.
  - (d) Write a short note on biodiversity of Chilika lake.

2. (a) Briefly discuss Joint Forest Management.  
What are its merits and demerits ? 20
- (b) Discuss agroforestry practices followed in  
Odisha. 40
3. (a) What are the characteristics of an  
agroforestry tree ? 10
- (b) What is Lerner's rule. What does it say about  
the ability of the market system to allocate  
resources efficiently. 20
- (c) Briefly discuss wildlife of Odisha. 30
4. (a) What is Project Tiger ? Has it been able to  
achieve its objectives ? Discuss. 40
- (b) Why there is gap between demand and  
supply of wood ? How agroforestry can  
reduce this gap ? 20

### SECTION – B

5. Answer any **three** of the following : 20×3 = 60
- (a) Define Plus and Elite tree. What are the  
criteria for selecting plus tree ?

- (b) Write short note on wood composites.
- (c) What is the scope of oil bearing tree seeds in Odisha ? What role they have played in the economy ?
- (d) Discuss the role of macro and micropagation in tree improvement ? Cite examples.
6. (a) Define leveling and outline various instruments used in leveling. 20
- (b) Write short note on mechanical properties of wood. 20
- (c) What is volume table ? Describe classification of volume tables in detail. 20
7. (a) How yield is regulated in clear felling system ? 25
- (b) Find out increment percent by Pressler's formula, if volume at age of 60 years is  $100\text{m}^3$ , at age of 50 years is  $80\text{m}^3$  and thinning gave  $10\text{m}^3$ . 15
- (c) Define surveying and discuss its importance in forestry. 20

8. (a) What is progeny testing ? Why it is important  
in tree breeding ? 20
- (b) Discuss the different methods used for resin  
tapping. 20
- (c) Compare air and Kiln drying of wood. 20

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