

CSM – 31/16
Forestry
Paper – II

Time : 3 hours

Full Marks : 300

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 : $20 \times 3 = 60$
- (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 100m^3 , at age of 50 years is 80m^3 and thinning gave 10m^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

