

CSM – 31/21
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 any **three** of the remaining questions, selecting at least **one** from each Section.*

SECTION – A

1. Answer any **three** questions of the following :

- (a) What are the different non-forestry activities for which the provisions of FC Act, 1980 is not applicable ? 20
- (b) Describe the role of Corporate Social Responsibility towards sustainable forest

production through Public-Private-Partnership approach. 20

- (c) What necessitated the introduction of Joint Forest Management Policy and what are the constraints in its implementation ?

10+10 = 20

- (d) Write short notes on the following : $5 \times 4 = 20$

- (i) Project Tiger
- (ii) National Park
- (iii) Biosphere Reserve
- (iv) Competitive Exclusion Principle

2. (a) Adoption of Agro forestry practices by the farming community is the result of increasing human and cattle population. Discuss. 20

- (b) Discuss the important role of Wildlife Protection Act, 1972 in the wildlife management of the country. 20

- (c) Describe the various anthropogenic factors contributing to deforestation in the country. Which factor do you think is most detrimental ? Justify your answer. 20

3. (a) What are the important features of demand-supply curve ? Discuss its application in Forest Trade. $10+10 = 20$
- (b) What is the extend of forest and tree cover of the country as per the recent satellite survey ? Furnish the figures for different category of forest and compare the same with the figures of the previous survey. Critically analyse the contributing factors from the change in extent of forest cover. $10+10 = 10$
- (c) What is wildlife census ? Discuss different census techniques used for Birds, Tigers, Elephants and Crocodiles. $4 \times 5 = 20$
4. (a) Compare and contrast the salient features of National Forest Policy, 1988 and 1952. 20
- (b) Discuss the legal provisions under Odisha Timber and other Forest Produce Transit Rules, 1980 for import of timber into the State of Odisha. 20
- (c) Discuss the procedure for declaration of Reserved Forests under the provisions laid down in OFA 1972.

SECTION – B

5. Answer any **three** questions of the following :

(a) Dry deciduous forests are rich in Non-Timber Forest Produce. Justify the statement with examples. Write the botanical names of ten commercially important NTFPs found in Odisha. 10+10 = 20

(b) Write short notes on the following : 5×4 = 20

(i) Quarter girth formula

(ii) Local Volume Table

(iii) Defects of wood

(iv) Biotechnological interventions in tree improvement programme

(c) (i) With the help of graphical analysis describe the relationship between CAI and MAI. What is their importance in Forest Management ? 5+5 = 10

(ii) Describe with diagram the construction and design of King Post Truss. 10

- (d) (i) What are the advantages of wood seasoning ? Describe various methods used for seasoning of woods. $5+5 = 10$
- (ii) How are yeild table data used for assessment of Normal Growing Stock ?
10

6. (a) Distinguish with the help of diagram between Irish Bridge, Suspension Bridge and Cantilever Bridge. 20

(b) Write the botanical names of the following :
 $10 \times 2 = 20$

- (i) Indian axle wood tree
- (ii) Indian rose wood tree
- (iii) Indian Laurel wood tree
- (iv) Indian temple tree
- (v) Indian iron wood tree
- (vi) Indian satin wood tree
- (vii) The queen of the night
- (viii) Indian bullet wood tree
- (ix) The flame of the forest
- (x) The Indian coral tree

(c) Write short notes on the following :

5×4 = 20

- (i) Gums
- (ii) Katha
- (iii) Bidi Leaves
- (iv) Resin
- (v) Lac

7. (a) What are the different methods used for :

10+10 = 20

- (i) The measurement of volume of felled tree ?
- (ii) The measurement of volume of standing crop ?

(b) Write short notes on the following : 5×4 = 20

- (i) General volume table
- (ii) Regional volume table
- (iii) Local volume table
- (iv) Standard volume table
- (v) Commercial volume table

(c) Which timber species are used for the construction of the chariot of Lord Jagannath ?

20

8. (a) What are the major Bidi Leaves producing states in India ? Why Kendu leaves are used for Bidi making ? Critically analyse the employment potential of Bidi Leaves production with specific reference to Odisha.

4+8+8 = 20

- (b) Describe the application of Remote Sensing for surveying the forest cover of the country. What are the advantages of Remote Sensing technique over other methods of survey ?

10+10 = 20

- (c) Write short notes on the following : 5×4 = 20

- (i) English Bond and Flemish Bond
- (ii) Banking of curves
- (iii) Principles of logging on a slope
- (iv) Application of yield table for assessment of normal growing stock
- (v) Management of NTEP by Panchayats

