

Contents

<i>Preface</i>	vii
<i>About the Author</i>	viii
<i>JRF Syllabus for Forestry</i>	ix
<i>NET Syllabus for Agroforestry</i>	xi–xiii
1. General Forestry	1—34
2. Ecology and Environment	35—56
3. Forest Management	57—84
4. Wildlife Management	85—100
5. Forest Utilization	101—140
6. Plant and Wood Anatomy	141—152
7. Forest Mensuration	153—184
8. Remote Sensing	185—192
9. Rangeland Management	193—200
10. Forest Protection	201—208
11. Silviculture	209—240
12. Agroforestry	241—250
13. Social Forestry	251—256
14. Genetics & Tree Improvement	257—280
15. Tree Seed Technology	281—286
16. Soil Science	287—304
17. Agricultural Extension	305—314
18. Agricultural Statistics and Economics	315—322
19. Plant Physiology	323—346
20. Memory based JRF Paper 2015	347—356
21. Memory based JRF Paper 2016	357—376
22. Memory based NET Paper 2015	377—394
23. Memory based SRF Paper 2014	395—410
24. UPPSC ACF Exam Paper 2015	411—426
ICFRE Scientist-B (Forestry)	427—440

CHAPTER 1

General Forestry

1. Term forest is derived from-
 - a. Greek word
 - b. **Latin word**
 - c. English word
 - d. French word
2. Total forest cover as percentage of geographical area according, FSI-2015-
 - a. **21.34**
 - b. 23.14
 - c. 24.08
 - d. 19.75
3. Total tree cover as percentage of geographical area according, FSI-2015-
 - a. 1.80
 - b. **2.82**
 - c. 3.85
 - d. 4.55
4. State having largest total forest cover in India is-
 - a. Jammu & Kashmir
 - b. Uttarakhand
 - c. **Madhya Pradesh**
 - d. Assam
5. State having highest forest cover as % of its geographical area-
 - a. **Mizoram**
 - b. Uttarakhand
 - c. Madhya Pradesh
 - d. Assam
6. State having highest mangrove forest cover in India is-
 - a. Mizoram
 - b. Uttarakhand
 - c. Madhya Pradesh
 - d. **West Bengal**
7. Currently Mangrove cover in India is-
 - a. 1740 km²
 - b. 2740 km²
 - c. 3740 km²
 - d. **4740 km²**

Answers

- | | | | | | |
|------|------|------|------|------|------|
| 1. b | 2. a | 3. b | 4. c | 5. a | 6. d |
| 7. d | | | | | |

2 ♦ Universal Objective Forestry

8. The total carbon stock in the country's forest is around 7, 044 million tonnes.
a. 4,044 mil tonnes b. 5,044 mil tonnes
c. **7,044 mil tonnes** d. 9,044 mil tonnes
9. Percent forest area of total geographic area in Andhra Pradesh according FSI, 2015-
a. **2.48 percent** b. 0.91 percent
c. 2.06 percent d. 2.32 percent
10. Number of total protected area (national park plus wildlife sanctuary) in Andhra Pradesh-
a. 12 b. 30
c. **16** d. 11
11. State animal of Andhra Pradesh-
a. Deer b. Leopard
c. **Blackbuck** d. Tiger
12. Percent forest area of total geographic area in Arunachal Pradesh according FSI, 2015-
a. 2.48 percent b. **0.91 percent**
c. 2.06 percent d. 2.32 percent
13. Number of total protected area (national park plus wildlife sanctuary) in Arunachal Pradesh-
a. 10 b. **13**
c. 23 d. 30
14. State animal of Arunachal Pradesh-
a. Sangai b. Rhinoceros
c. Gaur d. **Mithun**
15. Percent forest area of total geographic area in Assam according FSI, 2015-
a. 2.48 percent b. 0.91 percent
c. **2.06 percent** d. 2.32 percent
16. Number of total protected area (national park plus wildlife sanctuary) in Assam -
a. **23** b. 30
c. 32 d. 35

Answers

- | | | | | | |
|-------|-------|-------|-------|-------|-------|
| 8. c | 9. a | 10. c | 11. c | 12. b | 13. b |
| 14. d | 15. c | 16. a | | | |

17. State animal of Assam-
 - a. **Rhinoceros**
 - b. Blackbuck
 - c. Hangul
 - d. Asiatic lion
18. Percent forest area of total geographic area in Bihar according FSI, 2015-
 - a. 2.48 percent
 - b. 0.91 percent
 - c. 2.06 percent
 - d. **2.32 percent**
19. Number of total protected area (national park plus wildlife sanctuary) in Bihar-
 - a. 10
 - b. **13**
 - c. 18
 - d. 25
20. State animal of Bihar-
 - a. **Ox**
 - b. Leopard
 - c. Blackbuck
 - d. Tiger
21. Percent forest area of total geographic area in Chhattisgarh according FSI, 2015-
 - a. 2.48 percent
 - b. 0.91 percent
 - c. **2.68 percent**
 - d. 2.32 percent
22. Number of total protected area (national park plus wildlife sanctuary) in Chhattisgarh-
 - a. 10
 - b. **14**
 - c. 20
 - d. 22
23. State animal of Chhattisgarh-
 - a. Sangai
 - b. Rhinoceros
 - c. Gaur
 - d. **Wild Buffalo**
24. Percent forest area of total geographic area in Goa according FSI, 2015-
 - a. 2.48 percent
 - b. **08.78 percent**
 - c. 2.06 percent
 - d. 2.32 percent
25. Number of total protected area (national park plus wildlife sanctuary) in Goa-
 - a. 5
 - b. **7**
 - c. 10
 - d. 13

Answers

- | | | | | | |
|-------|-------|-------|-------|-------|-------|
| 17. a | 18. d | 19. b | 20. a | 21. c | 22. b |
| 23. d | 24. b | 25. b | | | |

4 ♦ Universal Objective Forestry

26. State animal of Goa-
a. **Gaur** b. Blackbuck
c. Hangul d. Asiatic lion
27. Percent forest area of total geographic area in Gujarat according FSI, 2015-
a. **4.04 percent** b. 0.91 percent
c. 2.06 percent d. 2.32 percent
28. Number of total protected area (national park plus wildlife sanctuary) in Gujarat-
a. **27** b. 30
c. 35 d. 39
29. State animal of Gujarat-
a. Tiger b. **Asiatic lion**
c. Deer d. Leopard
30. Percent forest area of total geographic area in Haryana according FSI, 2015-
a. 2.48 percent b. 0.91 percent
c. **3.07 percent** d. 2.32 percent
31. Number of total protected area (national park plus wildlife sanctuary) in Haryana-
a. 5 b. 7
c. **10** d. 15
32. State animal of Haryana-
a. Goat b. **Blackbuck**
c. Tiger d. Hangul
33. Percent forest area of total geographic area in Himanchal Pradesh according FSI, 2015-
a. 2.48 percent b. **1.36 percent**
c. 2.06 percent d. 2.32 percent
34. Number of total protected area (national park plus wildlife sanctuary) in Himanchal Pradesh-
a. 15 b. 23
c. 29 d. **33**

Answers

- | | | | | | |
|-------|-------|-------|-------|-------|-------|
| 26. a | 27. a | 28. a | 29. b | 30. c | 31. c |
| 32. b | 33. b | 34. d | | | |

35. State animal of Himanchal Pradesh-
 - a. Rhinoceros
 - b. Blackbuck
 - c. **Snow leopard**
 - d. Hangul
36. Percent forest area of total geographic area Jammu & Kashmir according FSI, 2015-
 - a. 2.48 percent
 - b. **3.76 percent**
 - c. 2.06 percent
 - d. 2.32 percent
37. Number of total protected area (national park plus wildlife sanctuary) in Jammu & Kashmir-
 - a. 12
 - b. 15
 - c. **19**
 - d. 25
38. State animal of Jammu & Kashmir-
 - a. Rhinoceros
 - b. Blackbuck
 - c. Snow leopard
 - d. **Hangul**
39. Percent forest area of total geographic area in West Bengal according FSI, 2015-
 - a. **2.35 percent**
 - b. 0.91 percent
 - c. 2.06 percent
 - d. 2.32 percent
40. Number of total protected area (national park plus wildlife sanctuary) in West Bengal-
 - a. 16
 - b. **21**
 - c. 26
 - d. 29
41. State animal of West Bengal-
 - a. Hangul
 - b. **Fishing cat**
 - c. Elephant
 - d. Rhinoceros
42. Percent forest area of total geographic area in Jharkhand according FSI, 2015-
 - a. 2.48 percent
 - b. 0.91 percent
 - c. **3.49 percent**
 - d. 2.32 percent
43. Number of total protected area (national park plus wildlife sanctuary) in Jharkhand-
 - a. 10
 - b. **12**
 - c. 18
 - d. 29

Answers

35. c 36. b 37. c 38. d 39. a 40. b
41. b 42. c 43. b

6 ♦ Universal Objective Forestry

44. State animal of Jharkhand-
a. Sangai
c. Gaur
b. Rhinoceros
d. **Elephant**
45. Percent forest area of total geographic area in Karnataka according FSI, 2015-
a. **2.89 percent**
c. 2.06 percent
b. 0.91 percent
d. 2.32 percent
46. Number of total protected area (national park plus wildlife sanctuary) in Karnataka-
a. 24
c. **32**
b. 28
d. 37
47. State animal of Karnataka-
a. Swamp deer
c. Nilgai Thar
b. Blackbuck
d. **Elephant**
48. Percent forest area of total geographic area in Kerala according FSI, 2015-
a. 2.48 percent
c. 2.06 percent
b. 0.91 percent
d. **7.59 percent**
49. Number of total protected area (national park plus wildlife sanctuary) in Kerala-
a. 14
c. **23**
b. 16
d. 28
50. State animal of Kerala-
a. Swamp deer
c. Nilgai Thar
b. Blackbuck
d. **Elephant**
51. Percent forest area of total geographic area in Madhya Pradesh according FSI, 2015-
a. **2.52 percent**
c. 2.06 percent
b. 0.91 percent
d. 2.32 percent
52. Number of total protected area (national park plus wildlife sanctuary) in Madhya Pradesh-
a. 15
c. 28
b. 24
d. **34**

Answers

- | | | | | | |
|-------|-------|-------|-------|-------|-------|
| 44. d | 45. a | 46. c | 47. d | 48. d | 49. c |
| 50. d | 51. a | 52. d | | | |

53. State animal of Madhya Pradesh-
 - a. **Swamp deer**
 - b. Blackbuck
 - c. Snow leopard
 - d. Hangul
54. Percent forest area of total geographic area in Maharashtra according FSI, 2015-
 - a. 2.48 percent
 - b. 0.91 percent
 - c. 2.06 percent
 - d. **3.11 percent**
55. Number of total protected area (national park plus wildlife sanctuary) in Maharashtra-
 - a. 21
 - b. 28
 - c. 35
 - d. **47**
56. State animal of Maharashtra-
 - a. Deer
 - b. Tiger
 - c. **Giant squirrel**
 - d. Blackbuck
57. Percent forest area of total geographic area in Manipur according FSI, 2015-
 - a. 2.48 percent
 - b. **1.09 percent**
 - c. 2.06 percent
 - d. 2.32 percent
58. Number of total protected area (national park plus wildlife sanctuary) in Manipur-
 - a. 2
 - b. **3**
 - c. 7
 - d. 9
59. State animal of Manipur-
 - a. **Sangai**
 - b. Rhinoceros
 - c. Gaur
 - d. Elephant
60. Percent forest area of total geographic area in Meghalaya according FSI, 2015-
 - a. 2.48 percent
 - b. 0.91 percent
 - c. 2.06 percent
 - d. **3.17 percent**
61. Number of total protected area (national park plus wildlife sanctuary) in Meghalaya-
 - a. **5**
 - b. 12
 - c. 16
 - d. 23

Answers

53. a 54. d 55. d 56. c 57. b 58. b
59. a 60. d 61. a

8 ♦ Universal Objective Forestry

62. State animal of Meghalaya-
a. Deer
b. Tiger
c. **Clouded leopard**
d. Blackbuck
63. Percent forest area of total geographic area in Mizoram according FSI, 2015-
a. 2.48 percent
b. 0.91 percent
c. **2.54 percent**
d. 2.32 percent
64. Number of total protected area (national park plus wildlife sanctuary) in Mizoram-
a. 7
b. **10**
c. 15
d. 21
65. State animal of Mizoram-
a. Rhinoceros
b. Blackbuck
c. Snow leopard
d. **Serow**
66. Percent forest area of total geographic area in Nagaland according FSI, 2015-
a. **2.30 percent**
b. 0.91 percent
c. 2.06 percent
d. 2.32 percent
67. Number of total protected area (national park plus wildlife sanctuary) in Nagaland-
a. 2
b. **4**
c. 8
d. 10
68. State animal of Nagaland-
a. Deer
b. **Mithun**
c. Clouded leopard
d. Blackbuck
69. Percent forest area of total geographic area in Odisha according FSI, 2015-
a. 2.48 percent
b. 0.91 percent
c. **2.56 percent**
d. 2.32 percent
70. Number of total protected area (national park plus wildlife sanctuary) in Odisha-
a. 15
b. 19
c. **21**
d. 27

Answers

- | | | | | | |
|-------|-------|-------|-------|-------|-------|
| 62. c | 63. c | 64. b | 65. d | 66. a | 67. b |
| 68. b | 69. c | 70. c | | | |

71. State animal of Odisha-
 a. Rhinoceros
 c. Snow leopard
 b. Blackbuck
 d. **Sambar**
72. Percent forest area of total geographic area in Punjab according FSI, 2015-
 a. 2.48 percent
 c. **3.07 percent**
 b. 0.91 percent
 d. 2.32 percent
73. Number of total protected area (national park plus wildlife sanctuary) in Punjab-
 a. 8
 c. **13**
 b. 10
 d. 15
74. State animal of Punjab-
 a. Deer
 c. Giant squirrel
 b. Tiger
 d. **Blackbuck**
75. Percent forest area of total geographic area in Rajasthan according FSI, 2015-
 a. 2.48 percent
 c. 2.06 percent
 b. 0.91 percent
 d. **2.42 percent**
76. Number of total protected area (national park plus wildlife sanctuary) in Rajasthan-
 a. 12
 c. 26
 b. 19
 d. 30
77. State animal of Rajasthan-
 a. Deer
 c. **Camel**
 b. Tiger
 d. Blackbuck
78. Percent forest area of total geographic area in Sikkim according FSI, 2015-
 a. 2.48 percent
 c. 2.06 percent
 b. **0.50 percent**
 d. 2.32 percent
79. Number of total protected area (national park plus wildlife sanctuary) in Sikkim-
 a. 5
 c. 12
 b. **8**
 d. 19

Answers

- | | | | | | |
|-------|-------|-------|-------|-------|-------|
| 71. d | 72. c | 73. c | 74. d | 75. d | 76. d |
| 77. c | 78. b | 79. b | | | |

10 ♦ Universal Objective Forestry

80. State animal of Sikkim-
a. Rhinoceros
b. Blackbuck
c. Snow leopard
d. **Red Panda**
81. Percent forest area of total geographic area in Tamil Nadu according FSI, 2015-
a. **3.46 percent**
b. 0.91 percent
c. 2.06 percent
d. 2.32 percent
82. Number of total protected area (national park plus wildlife sanctuary) in Tamil Nadu-
a. 15
b. 20
c. 25
d. **34**
83. State animal of Tamil Nadu-
a. Swamp deer
b. Blackbuck
c. **Nilgai Thar**
d. Elephant
84. Percent forest area of total geographic area in Telangana according FSI, 2015-
a. **2.22 percent**
b. 0.91 percent
c. 2.06 percent
d. 2.32 percent
85. Number of total protected area (national park plus wildlife sanctuary) in Telangana-
a. 8
b. **12**
c. 18
d. 23
86. State animal of Telangana-
a. Phayre's langur
b. Blackbuck
c. Elephant
d. **Deer**
87. Percent forest area of total geographic area in Tripura according FSI, 2015-
a. **2.22 percent**
b. 0.91 percent
c. 2.06 percent
d. 2.32 percent
88. Number of total protected area (national park plus wildlife sanctuary) in Tripura-
a. **6**
b. 9
c. 11
d. 13

Answers

- | | | | | | |
|-------|-------|-------|-------|-------|-------|
| 80. d | 81. a | 82. d | 83. c | 84. a | 85. b |
| 86. d | 87. a | 88. a | | | |

89. State animal of Tripura-
 a. **Phayre's langur** b. Blackbuck
 c. Elephant d. Deer
90. Percent forest area of total geographic area in Uttar Pradesh according FSI, 2015-
 a. 2.48 percent b. 0.91 percent
 c. 2.06 percent d. **2.92 percent**
91. Number of total protected area (national park plus wildlife sanctuary) in Uttar Pradesh-
 a. 12 b. 18
 c. **25** d. 35
92. State animal of Uttar Pradesh-
 a. Tiger b. **Swamp deer**
 c. Blackbuck d. Cow
93. Percent forest area of total geographic area in Uttarakhand according FSI, 2015-
 a. 2.48 percent b. 0.91 percent
 c. **1.41 percent** d. 2.32 percent
94. Number of total protected area (national park plus wildlife sanctuary) in Uttarakhand-
 a. 10 b. **13**
 c. 18 d. 24
95. State animal of Uttarakhand-
 a. **Musk deer** b. Blackbuck
 c. Nilgai Thar d. Elephant
96. Advanced Research Centre for Bamboo and Rattan is situated in-
 a. **Aizawl** b. Bhopal
 c. Kerala d. New Delhi
97. Agricultural and Processed Food Products Export Development Authority (APEDA)-
 a. Kanpur b. Bangalore
 c. Madhya Pradesh d. **New Delhi**

Answers

- | | | | | | |
|-------|-------|-------|-------|-------|-------|
| 89. a | 90. d | 91. c | 92. b | 93. c | 94. b |
| 95. a | 96. a | 97. d | | | |

12 ♦ Universal Objective Forestry

98. Arid Forest Research Institute (AFRI) is situated-
a. Jaipur
b. **Jodhpur**
c. New Delhi
d. Bombay
99. Headquarter of Botanical Survey of India (BSI)-
a. New Delhi
b. Dehra Dun
c. **Kolkata**
d. Lucknow
100. Center for Ecological Sciences is situated-
a. Kanpur
b. **Bangalore**
c. Madhya Pradesh
d. New Delhi
101. Center for International Forestry Research (CIFOR) is situated in-
a. India
b. Geneva
c. **Indonesia**
d. Japan
102. Center for Tropical Forest Science is located in-
a. Morgis
b. Geneva
c. Glans
d. Panama
103. Central Drug Research Institute is located in-
a. New Delhi
b. Dehra Dun
c. Kolkata
d. **Lucknow**
104. Centre for Forest-based Livelihoods and Extension is situated in-
a. Morgis
b. Geneva
c. Glans
d. **Agartala**
105. Centre for Social Forestry and Eco-Rehabilitation is located in-
a. Jaipur
b. **Allahabad**
c. New Delhi
d. Bombay
106. Forest Research Institute is located in-
a. New Delhi
b. **Dehra Dun**
c. Kolkata
d. Lucknow
107. Headquarter of Forest Survey of India is situated in-
a. New Delhi
b. Kolkata
c. Mumbai
d. **Dehra Dun**
108. Foundation for Revitalizations of Local Health Traditions (FRLHT) is located in-
a. Kanpur
b. **Bangalore**
c. Madhya Pradesh
d. New Delhi

Answers

98. b	99. c	100. b	101. c	102. d	103. d
104. d	105. b	106. b	107. d	108. b	