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NPTEL

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Unit 7 - Week 6: Basal area

Register for Certification exam

Course outline

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Week 6: Basal area

○ Lecture 26: Basal area of a tree and stand

○ Lecture 27: Stand basal area, crop diameter and crop age

○ Lecture 28: Point sampling - I

○ Lecture 29: Point sampling

Assignment-06

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.   **Due on 2019-04-10, 23:59 IST.**

1) At 8 systematically chosen sample points of a plantation, the number of trees in sample plots of 0.01 Ha are as under: n = 14, 16, 16, 14, 14, 9, 16, 14 Calculate the number of trees per hectare.   **2 points**

○ 1200 - 1300

○ 1300 - 1400

○ 1400 - 1500

○ 1500 - 1600

No, the answer is incorrect.
Score: 0

Accepted Answers:
1400 - 1500

2) A tree has dbh of 35 cm. Find its basal area in sq m.   **2 points**

○ .049

○ .096

○ .149

○ .195

No, the answer is incorrect.
Score: 0

Accepted Answers:
.096

3) 3 trees are located in a sample plot of 15 m × 15 m. Their dbh are as under: dbh = 25 cm, 30 cm, 35 cm Find the stand basal area in sq m per Ha.   **2 points**

○ 9.6

○ 14.6

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4) Consider a stand of eucalyptus trees that are on average 30 cm in diameter and spaced **2 points**
on a regular 3 m grid. Find the spacing factor.

○ 5

○ 10

○ 15

○ data insufficient

No, the answer is incorrect.
Score: 0

Accepted Answers:
10

5) The relationship between crop diameter and mean diameter is   **2 points**

○ Crop diameter > Mean diameter

○ Crop diameter = Mean diameter

○ Crop diameter < Mean diameter

○ None of these

No, the answer is incorrect.
Score: 0

Accepted Answers:
Crop diameter > Mean diameter

6) PPS stands for   **2 points**

○ Positivity proportional to size

○ Probability proportional to sound

○ Probability proportional to size

○ Probability proportional to sample

No, the answer is incorrect.
Score: 0

Accepted Answers:
Probability proportional to size

7) In point sampling, slope correction is required when slope >   **2 points**

○ 5%

○ 10%

○ 15%

○ 20%

No, the answer is incorrect.
Score: 0

Accepted Answers:
15%

8) A wedge prism of BAF = 2 is used to take readings in a plantation. Tally, T = 12, Half tally, **2 points**
HT = 9 Find out BA / Ha.

○ 24.75

○ 27

○ 33

○ 35

No, the answer is incorrect.
Score: 0

Accepted Answers:
33

9) Number of trees counted in 10 systematically chosen sample plots of a plantation are: n = **2 points**
16, 13, 18, 14, 11, 9, 17, 16, 16, 14 If each sample plot has the area of 0.01 Ha, calculate the number
density of the plantation.

○ 1210

○ 1440

○ 1690

○ 2250

No, the answer is incorrect.
Score: 0

Accepted Answers:
1440

10) For a crown / bole diameter of 10, what is the maximum feasible basal area of a stand per **2 points**
hectare, considering square spacing?

○ 69.5

○ 72.5

○ 75.5

○ 78.5

No, the answer is incorrect.
Score: 0

Accepted Answers:
78.5

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