2023

AGS 1st Semester Examination

B.Sc. Hons. in Agriculture

Introduction to Forestry

PAPER — AGS-104

Full Marks : 50

Time : 2 hours

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The figures in the right-hand margin indicate marks.

Candidates are required to give their answers in their own words as far as practicable.

Illustrate the answers wherever necessary.

Answer **all** questions.

1. Answer *any* **five** questions from the following : 2×5=10

(a) What is thinning?

(b) Mention the purpose of mensuration.

(c) What do you mean by coppice system?

(d) Differentiate between bole height and stump height.

(e) What precautions will be taken while measuring the diameter of a tree using callipers?

(f) Differentiate between natural and artificial regeneration.

(g) What is agroforestry?

(h) Mention any two methods for determining the height of a standing tree.

(i) Mention the significance of DBH.

2. Answer *any* **four** questions from the following : 5×4=20

(a) Mention the objectives of silviculture.

(b) Write about the advantages and disadvantages of natural regeneration.

(c) Write down trigonometric principles of height measurement of a standing tree.

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(d) What is clear-felling? Write about the advantages and disadvantages of natural regeneration.

(e) Write short notes on windbreak and shelterbelt.

(f) Write about the salient features of Indian Forest Policy, (1988).

3. Answer *any* **two** questions from the following : 10×2=20

(a) Write the classification of forests in India. Give example of plants found in each forest types. 6+4=10

(b) Discuss the different tending operations in forestry. What is taungya? 7+3=10

(c) Mention any three instruments used for measuring the diameter of a standing tree and mention their advantages and disadvantages. Differentiate crown length and crown height. 7+3=10

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(d) What is tree stem form? How is stem form used in volume table formation? Discuss quarter girth formula for volume measurement. 2+2+6=10

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