

2022

B. Sc. (Honours) in AGRICULTURE

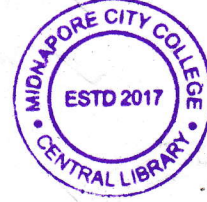
1st Semester Examination

Introduction to Forestry

PAPER — AGS-104

Full Marks : 50

Time : 2 hours



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 from **all** the Groups as directed.

GROUP—A

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

✓(a) Write the differences between reforestation and afforestation.

(b) Mention any two artificial regeneration methods applied in a forest.

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(Turn Over)

(2)

- Define DBH. What is the breast height used in India?
- (d) Define mensuration.
- (e) Distinguish between bole height and stump height.
- Write down two disadvantages of using tape in diameter measurement.
- What precautions are to be taken during measuring diameters of a tree using a calliper?
- What is shifting cultivation?



GROUP—B

2. Answer any four questions : 5×4=20
- (a) What are the major stages of natural regeneration?
- Write notes on the following :
- Windbreak
- Shelterbelt
- What are the different tropical forest types found in India?

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(Continued)

(3)

- (d) What is volume table? Discuss different types of volume tables used.
- What are the advantages and disadvantages of use of Abney's level in forestry.
- Briefly discuss about thinning and cleaning tending operations.



GROUP—C

3. Answer any two questions :

- What is silviculture? Mention the scope and objectives of silviculture. 2+8=10
- (b) Write different processes for measurement of volume of a standing tree. What is form factor? 8+2=10
- Define agroforestry. Write the importance of agroforestry. Mention the criteria of selection of trees for agroforestry. 2+4+4=10
- (d) Write the different rules for measurement of DBH. What is Newton's formula for volume measurement? 6+4=10

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