

**M.Sc. 2nd Semester Examination, 2011**

**BOTANY**

**PAPER—BOT-202**

*Full Marks : 40*

*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*

**Write the answers to questions of each Unit  
in separate books**

**UNIT—I**

*(Silviculture)*

*[Marks : 20]*

*Answer all questions*

1. Answer any *five* of the following : 1 × 5
- (a) What is sapling ?

*( Turn Over )*

- (b) What is plant percent ?
- (c) Define podsolization.
- (d) What is high forest ?
- (e) What is Pan formation ?
- (f) What is silvics ?
- (g) What is pool frost ?
- (h) Define Agroforestry.

2. Write short notes on any *two* of the following :  $2\frac{1}{2} \times 2$

- (i) Objective of silviculture
- (ii) Reasons of salt accumulation in soil
- (iii) Effect of snow on forest
- (iv) Soil profile.

3. What is aspect and exposure ? How does it affects the distribution of forest ? What are the factors of natural regeneration.

2 + 4 + 4

Or

What is Bioclimate ? Discuss the role of fire and grazeing on forest.

2 + 4 + 4

UNIT – II

(*Forest Mensuration*)

[*Marks : 20*]

Answer *all* questions

4. Answer any *five* of the following : 1 × 5
- (a) What is form quotient ?
  - (b) What is the basis of determining site quality ?
  - (c) What is girth class ?
  - (d) What is tap height ?
  - (e) What is crop diameter ?
  - (f) What is general volume table ?
  - (g) What is yield table ?
  - (h) What is thinning ?

5. Answer any *two* of the following :  $2\frac{1}{2} \times 2$

(a) State the objective of forest mensuration ?

(b) What is quarter girth formula ? How far is it correct ? Explain .

(c) Differentiate between artificial and normal Form factor ?

(d) Give the classification of volume table on variables.

6. What is BH ? Write and explain the rules of BH measurement of a tree. Write a note on forest inventory.  $2 + 4 + 4$

*Or*

What are the instruments of height measurement of a tree ? On what principles they are constructed ? What is the function of mirror in Abney's level ? Why eye height is added to calculate the height of a tree.  $2 + 4 + 2 + 2$

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