

2009

M.Sc.

3rd Semester Examination

BOTANY

PAPER—XIV

Full Marks : 40

Time : 2 Hours

The figures in the right-hand margin indicate full 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 the questions of each Unit in separate books.

UNIT—I

[Marks : 20]

1. Answer any five of the following : 1×5

- (i) What is R.F. ?**
- (ii) What is Geodetic Survey ?**
- (iii) What is Plan ?**
- (iv) What is Bearing ?**

(Turn Over)

- (v) What is Taungya ?
- (vi) What is seeding felling ?
- (vii) What is High forest system ?

2. What is 'Reduced bearing'? Convert the following WCB to RB :

- (a) 85° ;
- (b) 175° ;
- (c) 185° ;
- (d) 285° .

Define magnetic declination ?

2+2+1

Or

Explain the principle on which a diagonal scale is prepared ? Write the advantages of plane table survey ?

3+2

3. What is clear strip system ? What is its advantage ? How is the natural regeneration obtained in a clear filling system ?

3+3

Or

What are the conditions for application of 'selection system'? Discuss 'felling cycle' in selection system ?

2+4

4. Write short notes on any *two* of the following : 2×2
- (i) Correction of chain length when wrong;
 - (ii) Coppice with Standard System and
 - (iii) Character of crop in Group System.

UNIT—II

[Marks : 20]

Answer Q. No. 5 and any *three* from the rest.

5. Answer any *five* of the following: 1×5

- (i) What is yield ?
- (ii) What is rotation ?
- (iii) What is JFM ?
- (iv) What is increment ?
- (v) What is working plan ?
- (vi) What is growing stock ?
- (vii) What is irregular forest ?

6. Describe the method of calculation of Normal Growing Stock in clear felling system based on MAJ. 5

7. Explain as to how the maximum volume production age is determined to fix the rotation of a tree crop. 5

8. What is the basic difference between the policy and act?
Give salient features of Forest Policy 1988. 1+4
9. Write short notes on any *two* of the following : $2 \times 2\frac{1}{2}$
- (i) Technical rotation;
 - (ii) Objective of Forest Conservation and
 - (iii) Concept of Progressive yield.
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