

M.Sc. 3rd Semester Examination, 2011

BOTANY

PAPER – BOT- 302

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

[Marks : 20]

Answer *all* questions

1. Answer any *five* questions from the following : 1 x 5

(i) What is R.F ?

- (ii) What is Geotetic survey ?
- (iii) What do you mean by "Local attraction" in Prismatic compass survey ?
- (iv) What is triangulation method ?
- (v) Define High Forest System ?
- (vi) What is Floating P.B. ?
- (vii) What do you mean by "Leased taungya" ?

2. What is Quadrantal Bearing ? Convert the following W.C.B to Q.B showing location. 2 + 3

- (i) 89°
- (ii) 90°
- (iii) 91°
- (iv) 380°
- (v) 181°
- (vi) 265°

Or

What are the characteristics of good graphical scale ? Write how a chain is standardized before use. Explain the method of correction of measured length when it is observed later that the length of the chain was either short or longer than the true length.

$$2 + 1\frac{1}{2} + 1\frac{1}{2}$$

3. What is selection system ? Explain the felling execution in selection system with the help of sketch.

1 + 4

Or

What is the objective behind keeping standards in coppice with standard system ? Explain the felling and the nature of crop under coppice with standard system.

2 + 2 + 1

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

- (i) Declination and its correction
- (ii) Regeneration in clear felling system
- (iii) Classification of Silviculture system.

UNIT – II

[Marks : 20]

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

5. Answer any *five* questions from the following : 1 x 5
- (i) What is Block in Forest Management ?
 - (ii) What is Reserve Forest ?
 - (iii) What is the function of forest ?
 - (iv) Which Act and Clause is used to declare a National Park.
 - (v) What is Progressive yield ?
 - (vi) What is working plan ?
 - (vii) How many Forest Policies have been notified in independent India and in which years ?
6. What is the difference between Policy and Act ?
Write salient features of the latest Forest Policy. 1 + 4
7. What are the factors which influence the length of rotation of a forest crop ? How the rotational maximum volume production is fixed ? 2 + 3

8. With suitable sketch explain the concept of sustained yield Management of Forest. 5
9. Write short notes on any *two* of the following : $2\frac{1}{2} \times 2$
- (i) J.F.M.
 - (ii) Felling series
 - (iii) Concept of compartment and sub-compartment.
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