

M.Sc. 3rd Semester Examination, 2013

BOTANY

PAPER—BOT-302

Full Marks : 40

Time : 2 hours

The figures in the right-hand margin indicate marks

**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 × 5

(i) What is triangulation ?

(ii) What is R.F. ?

(Turn Over)

(iii) What is Bearing ? Which instrument is used to measure it ?

(iv) What is coppice with Standard System ?

(v) What do you mean by floating P.B. ?

(vi) What do you mean by system of concentrated regeneration ?

(vii) Which silvicultural system is simple and less costly to implement ?

(viii) Define Geodetic Survey ?

2. What is local attraction ? In a running compass survey following bearings were taken. Find out the stations affected by local attraction and write the correct bearings ?

<u>Line</u>	<u>F.B.</u>	<u>B.B.</u>
A-B	345°	165°
BC	88°	269° 30'
CD	173° 30'	350° 30'
DA	263° 30'	85°

Also indicate the corrections at station points. 1 + 4

(3)

Or

(a) Write down the Quadrantal Bearings of the following W.C.Bs :

(i) 65°

(ii) 165°

(iii) 181°

(iv) 270°

(v) 271°

(vi) 359°

(vii) 259°

(viii) 89°

(b) Explain the principles of construction of Diagonal scale. 3 + 2

3. What is Uniform System ? How it differs from clear felling system ? Show the ages of different periodic Blocks where the rotation is 120 years and Regeneration Period is 30 years. 1 + 1 + 3

(4)

Or

Define Selection System. Explain the selection system with the help of a sketch showing the felling cycle. 1 + 4

4. Write short notes on any *two* of the following : $2 \frac{1}{2} \times 2$
- (i) Great Principles of Survey
 - (ii) Method of regeneration obtained in clear felling system
 - (iii) Significance of Silvicultural System in Forest Management.

UNIT – II

[Marks : 20]

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

5. Answer any *five* questions from the following : 1×5
- (i) Define Reserve Forest.
 - (ii) What is J.F.M?
 - (iii) What do you mean by progressive yield?

- (iv) What do you mean by Increment of forest ?
- (v) How many chapters and clauses are there in the Indian Forest Act 1927 ?
- (vi) What is Growing Stock ?
- (vii) Define Forest Management.
- (viii) Define Working Plan.
6. Discuss the concept of Block and Compartment in Forest Management. 5
7. Explain the Rotation of Maximum Volume Production. 5
8. Explain the concept of Sustained Yield Management of Forest. 5
9. Write short notes on any two of the following : 5
- (i) Forest Policy 1988
- (ii) Physical Rotation
- (iii) Biodiversity conservation in Forest Management.