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PG/IIIS/BOT - 302/14

M.Sc. 3rd Semester Examination, 2014

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 × 5

(i) What does it mean by closed and open traverse ?

(Turn Over)

(2)

- (ii) What is the use of prism in Prismatic compass ?
- (iii) Define surveying.
- (iv) In what condition Irregular shelter wood system is developed ?
- (v) What is seeding felling ?
- (vi) Define clear felling system.
- (vii) Which stage of crop is found in PBI ?

2. In a running compass survey following bearings were taken check and find the error in bearings and correct them. What are the reasons which causes the error in reading the bearings ? 4 + 1

<u>Line</u>	<u>F.B.</u>	<u>B.B.</u>
AB	45°	225°
BC	193°	12°30'
CD	118°30'	300°
DA	273°	92°

Also indicate the corrections at station points.

(3)

Or

Write down the Quadrantal bearings of the following W.C.Bs. 3 + 2

(i) 05°

(ii) 85°

(iii) 95°

(iv) 181°

(v) 179°

(vi) 279°

(vii) 359°

(viii) 269°

(ix) 270°

What is the difference between W.C.B. and Q.B.

3. Define silviculture system. Explain the operations done in clear felling system. Where this system is followed and why? 1 + 3 + 1

Or

Explain Group system. How a crop look like in Group system after maturity? 4 + 1

4. Write short notes on any *two* of the following :

(i) Advantages of diagonal scale; $2\frac{1}{2} \times 2$

(ii) Silviculture system : most ecological and least economical ; and

(iii) Taungya.

UNIT – II

[Marks : 20]

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

5. Answer any *five* questions : 1×5

(i) Define Protected Forest.

(ii) What is F.P.C. ?

(iii) What is national park ?

(iv) What are the objectives of F. management ?

(v) Which chapter and clauses deal with the Reserve Forest in I.F.A.(1927) ?

(vi) Define Normal Forest.

(vii) Define working circle.

(viii) Define "Normal Growing Stock".

6. Discuss the concept of Felling Series and Cutting section.

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

7. Explain the Rotation of Highest income. How it differs from Financial rotation ?

$$3 + 2$$

8. Illustrate the benefits of J.F.M to the villagers. Mention the participation of women in J.F.M.

$$4 + 1$$

9. Write short notes on any *two* of the following :

(i) Wildlife protection through Act;

$$2 \frac{1}{2} \times 2$$

(ii) Factors influencing length of rotation; and

(iii) MAI.