

2015

M.Sc.

3rd Semester Examination

BOTANY

PAPER—BOT-302

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.

UNIT—I (Marks : 20)

Answer Q. No. 1 & 2 and any two of the rest.

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

- (i) What is shelterwood system ?
- (ii) Explain clear felling system.
- (iii) What is triangulation method ?

(Turn Over)

- (iv) What is Theodolite survey ?
- (v) What is representation fraction ?
- (vi) What is regeneration interval ?
- (vii) What is traversing ?
- (viii) What is final felling ?
2. Write short notes any *two* of the following : $2 \times 2\frac{1}{2}$
- (a) Chain survey ;
- (b) Plane table survey ;
- (c) Application of silviculture system ;
- (d) Periodic block.
3. Define uniform system. Explain the operations done in uniform system. Where is this system followed ? $1+3+1$
4. Classify silviculture system. mention any two objectives of silviculture system. $4+1$
5. Explain the coppice system with standards. Describe the pattern of felling in the coppice system. $1\frac{1}{2}+3\frac{1}{2}$

UNIT—II (Marks : 20)

Answer Q. No. 5 and any *three* questions.

5. Answer any *five* of the following : 5×1
- (a) Define block.
 - (b) What is a compartment ?
 - (c) What do you mean by working circle ?
 - (d) What is felling series ?
 - (e) Define sustained yeild.
 - (f) In which year was the Helsinki World Forestry Congress held ?
 - (g) What is rotation?
 - (h) Define current annual increment.
6. Define yeild table. What are primary and secondary data of a yeild table ? 2+3
7. What are the main attributes of a normal forest ?
What are the abnormalities ? 2+3
8. Briefly describe the types of production period. 5

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

- (a) Working plan;
 - (b) Brief concept of forest act;
 - (c) Objectives of forest conservation and management.
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