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 ?
(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 yield.
   (f) In which year was the Helsinki World Forestry Congress held?
   (g) What is rotation?
   (h) Define current annual increment.


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.