

2016

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.

Use separate answer scripts for each Units.

UNIT—I

(Marks : 20)

Answer all questions.

1. Answer any *five* questions from the following : 5×1
 - (a) What do you mean by 'Local attraction' in prismatic compass survey ?
 - (b) What is reduced bearing ?

(Turn Over)

- (c) What is contour mapping ?
- (d) What is the utility of aledate ?
- (e) What is periodic block ?
- (f) What is secondary felling ?
- (g) What is block patch ?
- (h) What is single tree selection system ?
2. In a running compass survey following bearings were taken. Find out the stations affected by local attraction and write the corrected bearings :

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

Also indicate the corrections at station points. 5

Or

What is Quadrantal bearing? Convert the following W.C.B. to Q.B. showing location :

- (i) 89°
- (ii) 90°
- (iii) 96°
- (iv) 380°
- (v) 182°
- (vi) 256°

2+3

3. Define clear felling system. Explain the methods for obtaining regeneration in clear felling system. 1+4

Or

Explain Shelter wood system. What are the advantages and disadvantages of shelter wood system? 1+4

4. Write short notes on any *two* of the following : $2 \times 2 \frac{1}{2}$
- (a) Advantages and disadvantages of Selection system.
 - (b) Simple Coppice system.
 - (c) Components of plane table survey.
 - (d) Characteristics of good graphical scale.

UNIT—II

(Marks : 20)

Answer Q. No. 1 and any *three* questions.

1. Answer any *five* from the following : 5×1
- (a) Define sub-compartment.
 - (b) What is progressive yield?
 - (c) What is sustainability?
 - (d) What do you mean by MAI?

- (e) According to 2013 forest survey report of India, what is the forest cover in MP ?
- (f) What is working plan ?
- (g) Name one primary data.
- (h) What is protected forest ?
2. Comment on the utilization of yield table data. 5
3. Write the basic objectives that govern the National Forest Policy. 5
4. Explain JFM in detail. 5
5. Write short notes on any *two* : $2 \times 2 \frac{1}{2}$
- (a) Felling series.
- (b) Objective of rotation.
- (c) Normal forest.
-