M.Sc. 1st Semester Examination, 2010

BOTANY

PAPER—BOT-102 (II)

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

UNIT—I

[*Marks* : 20]

Answer any *two* questions

1. (*a*) State the characteristic features of different generations of computer.

   (*b*) Point out the difference between RAM and ROM. What are the common types of RAM used in the computer ?

(c) What are the terms used for expressing memory size ? 5 + 4 + 1

2. (a) How some specific pages of a word document can be printed ?

(b) Write the steps for making a table structure having 6 columns and 4 rows. How can you add a column to an already existing table ?

(c) What do you mean by 'merge cell' and 'split cells' ? 2 + 5 + 3

3. (a) Explain the statements used in BASIC programming for looping operation. What is nested loop ?

(b) Write a program in BASIC to find greatest length among three values of leaf length without using FOR-NEXT Loop.

(c) Write the BASIC equivalent of the following expression :

$$\frac{b^2 - 4ac}{K - N \div 4}.$$

(2 + 1) + 4 + 3

(Continued)

4. Write the brief notes on the following : 2 × 5

   (i) Assembly language

   (ii) ALU

   (iii) Logical expression in BASIC

   (iv) Inserting symbol in MS-Word document

   (v) Abacus.

UNIT—II

[*Marks* : 20]

Answer any *two* questions

5. (a) Define median. Mention its uses. Find the median for the following data :

Class Interval	Frequency
0—10	28
10—20	35
20—30	24
30—40	41
40—50	18
50—60	11
60—70	8
70—80	7
80—90	3
90—100	1

(b) Explain the terms 'Kurtosis' with mathematical formula. Write the different types of Kurtosis. $6 + 4$

6. (a) What do you mean by standard deviation ? In a study on patients, the following data were obtained. Find the standard deviation of the data :

Age (in years)	Number of Cases
10 — 19	1
20 — 29	0
30 — 39	1
40 — 49	10
50 — 59	17
60 — 69	38
70 — 79	9
80 — 89	3

(b) What is mode ? In Rajdhani Rubber Industry, Tilaknagar, New Delhi, seven labourers are receiving the daily wages of Rs. 5, 6, 6, 8, 8, 8 and 10. Find the modal wage. $(2 + 5) + (1 + 2)$

7. (a) What is covariance ? Calculate the coefficient of correlation between x and y for the following data :

x	1	2	3	4	5	6	7	8	9
y	12	11	13	15	14	17	16	19	10

(b) Calculate the skewness for the following problem :

Size of the item	Frequency
10	2
11	7
12	11
13	15
14	10
15	4
16	1

6 + 4