2008

M.Sc.

1st Semester Examination

BOTANY

PAPER—II

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.

(Write the answers Question of each Unit in separate books)

Unit—I

[Marks—20]

Answer any *two* questions

1. (a) What do you mean by primary memory and secondary memory of a computer ?

(b) State the differences between RAM and ROM. Mention characteristics of different kinds of ROM.

(c) State the functions of ALU. 2+6+2

2. (a) Explain numeric and string variable.

(b) What is subscripted variable ? Give example.

(c) Write a computer program in BASIC to compute the lowest transpiration rate among 10 plant species. 3+2+5

3. (a) What do you mean by low level language and high level language?

(b) State the difference between 'SAVE' and 'SAVE AS' in Ms Word.

(c) Write the steps for making a 5 rows/7 columns table in Ms Word. How do you delete a row from an existing table? 3+2+5

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

(a) Abacus;

(b) Hyper link

(c) CDROM

(d) Modem

(e) Compiler.

Unit—II

[Marks—20]

Answer any *two* questions

5. (a) What is meant by 'moment' of a distribution ? What are the 'non-central moments' and 'central' moments ? 4

(b) Calculate the coefficient of skewness and kurtosis from the following data :

Class Limits	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89
Frequency	5	9	14	20	25	15	8	4

6

6. (a) What do you mean by quartile deviation and coefficient of quartile deviation ?

Calculate the quartile deviation and its coefficient from the following data.

Class interval	10-15	15-20	20-25	25-30
Frequency	4	12	16	22

30-40	40-50	50-60	60-70	Total
10	8	6	4	82

7

(b) Define standard deviation including the mathematical formula. What is the relationship between the standard deviation and variance ? 3

7. (a) What do you mean by covariance? Work out the coefficient of linear correlation between x and y from the following data. Determine the regression line of y on x and then make an estimate of the value of y when x = 12

x :	1	3	4	6	8	9	11	14
y :	1	2	4	4	5	7	8	9

7

(b) Explain the terms 'Skewness' and 'Kurtosis'. Give the different measures of Skewness and Kurtosis.

3