M.Sc. 1st Semester Examination, 2012

BOTANY

PAPER – BOT- 102

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

Answer any *two* questions

1. (*a*) What is machine language ? Explain the format of instruction used in machine language.

(*b*) What is assembly language ?

(*c*) State the difference between compiler and interpreter.

(*d*) What do you understand by software package ?

4 + 2 + 2 + 2

2. (*a*) How do you insert a symbol in the text document of MS-Word ?

(*b*) How some specific pages of a word document can be printed ? What is 'print preview' ?

(*c*) What is WWW ? How internet explorer tool bars can be used for navigating through visited Websites ?

(*d*) What is URL ? 2 + 3 + 4 + 1

3. (*a*) What is flowchart ? Draw a flowchart to find the average value of spike length of 15 samples.

(*b*) Correct errors, if any, of the following :

(*i*) 60 FOR J = 1, 10 THEN STEP 2

(*ii*) 70 LET P$ = 20

(*c*) Write a program in BASIC to find the highest value height of three trees without using FOR-NEXT statement. 4 + 2 + 4

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

(*i*) MICR

(*ii*) Punched cards

(*iii*) 'Undo function' of MS-Word

(*iv*) MODEM

(*v*) REM statement of BASIC.

UNIT–II

Answer any *two* questions

1. (*a*) What do you mean by dispersion ? Write the several measures of dispersion.

(*b*) Find the lines of regression x on y and y on x for the following data :

x :	3	5	6	6	9
y :	2	3	4	6	5

(*c*) Define the terms "Correlation" and "Regression". $3 + 5 + 2$

2. (*a*) The probability of A, B, C solving a problem are $\frac{1}{3}$, $\frac{2}{7}$, $\frac{3}{8}$ respectively. If all the three try to solve the problem simultaneously, find the probability that exactly one of them will solve it.

(*b*) Give a critical review of the different measures of central tendency, with examples.

(*c*) What is skewness ? Give the different measures of skewness (at least *three*). 4 + 3 + 3

3. (*a*) In a study to test the effectiveness of a new variety of seeds, an experiment was performed with 50 experimental field and the following results of yield per hectare (in quintals) were obtained.

Yield	No. of fields	Yield	No. of fields
31 – 35	2	51 – 55	16
36 – 40	3	56 – 60	5
41 – 45	8	61 – 65	2
46 – 50	12	66 – 70	2

Find the Mean Deviation from the Mean and Standard Deviation.

(*b*) Write the properties of correlation coefficient. 7 + 3
