

**2009**

**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.*

*Write the answers to questions of each unit in separate books.*

**Unit—I**

**[Marks : 20]**

**Answer any two questions.**

1. (a) What do you mean by 'intranet' and 'extranet'? What is internet? Which services are available in internet?
- (b) Explain functions of a the following Tool Bar in MS Word :
  - (i) Undo ; (ii) Spelling and grammar. (2+1+3)+4

*(Turn Over)*

2. (a) Make a comparison between INPUT and READ statements of BASIC programming.
- (b) Correct errors, if any, of the followings :
- (i) 20 LET B = "BOTANY"
- (ii) 50 IF K < 10 GO TO 80
- (c) Write a computer program in BASIC to arrange the heights of a number of trees in ascending order.
- 3+2+5
3. (a) What is Operating System? Give Examples. State the advantages of Operating System.
- (b) Distinguish between source program and object program.
- (c) What is the function of control unit of CPU?
- 5+3+2
4. Write brief notes on the following : 2×5
- (a) Punched Card ;
- (b) DIM Statement ;
- (c) EPROM ;
- (d) Simulation ;
- (e) URL.

## Unit—II

[Marks : 20]

Answer any two questions.

5. (a) Define Correlation Coefficient between the variables. Write two important properties of Correlation Coefficient.

Marks of 10 students in Mathematics and Statistics are given below :

Mathematics (X): 32 38 48 43 40 22 41 69 35 64

Statistics (Y) : 30 31 38 43 33 11 27 76 40 59

Find the correlation coefficient of above data. 3+4

- (b) What do you mean by measures of Central tendency? What are the different measures of Central tendency?

3

6. (a) Define 'Regression'. Write the equations of two regression lines.

3

- (b) What do you mean by mean deviation?

Find the mean deviation of the following series :

x : 11 12 13 14 15 Total

Frequency : 03 12 18 12 06 51

Find also the Coefficient of mean deviation. 7

7. (a) Find the first and the second order raw and central moments of the following frequency distribution :

|                 |   |       |       |       |       |   |  |  |
|-----------------|---|-------|-------|-------|-------|---|--|--|
| Expenditure     | : | 3-6   | 6-9   | 9-12  | 12-15 |   |  |  |
| No. of families | : | 28    | 292   | 389   | 212   |   |  |  |
|                 |   | 15-18 | 18-21 | 21-24 | Total |   |  |  |
|                 |   | 59    | 18    | 2     | 1000  | 6 |  |  |

- (b) Find the variance from the following data :

49, 63, 46, 59, 65, 72, 52, 60, 54 4

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