2009

M.Sc.

1st Semester Examination

BOTANY

PAPER—V

(PRACTICAL)

Full Marks : 50

Time : 5 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.

Group—A

Unit—I

(Marks : 30)

Time : 3 Hours

1. Make a suitable preparation of the supplied specimen 'A'. *Draw, label, describe* and *identify* the specimen.
   $$1+(2+1+3+1)$$

2. Work out the specimen 'B'. Draw, label, describe and identify the genes. $2+2+1+2+1$

3. Identify the following specimens and / or slides C & D.   4

4. Laboratory Note Book. $2+2$

5. Viva Voce. $3+3$

Unit—II (Computer)

(*Marks : 20*)

Time : 2 Hours

Answer any *two* questions. At most *one* to be answered from each group.

Problem : 16 marks ; Lab. note book and viva : 4 marks

Group—A

1. Write a program to find the sum of following data :

   10, 20, 33, 44, 55·5, 20·90, 98·8, 45·45, −23, −45·6

2. Write a program to find the average of following data :

   100, 210, 133, 244, 155·5, 200·90, 918·8, 425·415, −213, −145·62

3. Write a program to arrange the following data in ascending order :

   20, 30, 40, 22, 34, −24, 12, 10, 22

4. Write a program to arrange the following data in descending order :

   220, 130, 340, 222, 134, −224, 132, 180, 232

5. Write a program to find the maximum among the following data :

   34, 55, 23, 10, 222, 56, 781, 90, 345

6. Following data represents the height of 9 plants. Find the height of the shortest plant :

   34, 56, 10, 45, 33, 12, 51, 30

7. Write a program to find the standard deviation of the following marks obtained by 8 students of a class :

34, 50, 60, 88, 98, 48, 38, 90

8. Write a program to find the correlation coefficient of a bivariate sample.

Group—B

1. Suppose the following are the runs scored by five players in a test cricket :

Sachin	Dhoni	Laxman	Rahul	R P Singh
102	90	75	175	10

Draw a bar diagram to represent these data with appropriate caption and legend.

2. The following table represents the volume and pressure of gas which is available in a container :

Pressure	10	20	30	40	50
Volume	90	82	70	60	48

Draw a line diagram to represent these data with appropriate caption and legend.

Group—C

1. Draw a table with appropriate caption and format for the following marks obtained by 8 students in three subjects :

Roll No.	1	2	3	4	5	6	7	8
Bengali	50	67	80	90	23	45	66	44
English	34	67	54	78	99	12	35	67
Biology	65	22	81	56	23	77	50	88

2. Draw a table with appropriate caption and format for the following data :

Temperature						
°C	100	50	− 40	0	− 20	40
°F	95	40	− 40	13	− 10	45