D 13057

Name.........................

Reg. No.....................

THIRD SEMESTER M.Sc. DEGREE EXAMINATION, FEBRUARY 2006

General Biotechnology

GBT 211 : BIOSTATISTICS AND BIOINFORMATICS

Time : Three Hours

Maximum : 80 marks

Section A

Answer any **two** *questions.*

1. Cale, ate the correlation coefficient to the following data

   : 110 100 140 120 80 90

   Marks : 70   60   80   60   10   20

2. Write a computer program to calculate mean and variance of 10 observations.

3. Explain the applications of word processing and spread sheets of MS-Office.

(2 x 10 = 20 marks)

Section B

Answer any **ten** *questions.*

4. Draw Histogram frequency polygon to the following data :—

Variable :	4-6	6-8	8-10	10-12	12-14	14-16
Frequency :	13	111	182	105	19	7

5. Describe the procedure of Chi-square test.

6. Explain the concept of level of significance.

7. Briefly describe the organisation of computers.

8. What is stack ? What are the operations can be performed on stack ?

9. Write a C program to find biggest of three numbers A, B and C.

10. State some applications of internet.

11. What are the various views available in power point software ?

12. Explain bubble sort with an example.

13. What is the purpose of BLAST algorithm.

14. Explain, conversion procedure of a binary number to a decimal number with an example.

15. Describe the use of database.

(10 x 5 = 50 marks)

Section C

Answer **all** *questions.*

16. What is class limits and class intervals ?

17. What is Null and alternate hypothesis ?

18. What is a Library functions in QBASIC ?

19. Define Internet.

20. State the relationship between Correlation and Regression coefficients.

(5 x 2 = 10 marks)