

THIRD SEMESTER M.Sc. DEGREE EXAMINATION, FEBRUARY 2005**General Biotechnology****GBT 211—BIOSTATISTICS AND BIO-INFORMATICS**

Time : Three Hours

Maximum : 80 Marks

Section A*Answer any two questions.*

1. From the following data, find the mean and median :—

<i>Weekly wages</i>	20 – 40	40 – 60	60 – 80	80 – 100	100 – 120	120 – 140
<i>No. of members</i> :	8	12	20	30	40	35
<i>Weekly wages</i> :	140 – 160	160 – 180	180 – 200			
<i>No. of members</i> :	18	7	5			

2. Write a computer program in QBASIC or C to demonstrate Bubble sort.
3. Elaborate on the applications of Internet.

(2 x 10 = 20 marks)

Section B*Answer any ten questions.*

4. Describe the various types of graphical representation of data.
5. What is mode ? Give an example.
6. Distinguish between type I error and type II error.
7. Define lines of regression and regression co-efficients.
8. What is the need of high-level languages ?
9. What is the use of flowchart ?
10. Explain QBASIC constants and variables.
11. Explain the concept and use of database.
12. Write the t-test for testing significance of an observed sample correlation co-efficient.
13. Describe the ways of preparing presentation using power point.
14. What is the purpose of FASTA Algorithm ?
15. Explain the need of data structures.

(10 x 5 = 50 marks)

Turn over

Section C

Answer all questions.

16. State any *four* Flowchart symbols and its use.
17. What is stack and Queue ?
18. What is spread sheet ?
19. Define correlation.
20. What is the use of Coreldraw ?

x 2 = 10 m;