

I B.Tech Examinations, May/June 2012
COMPUTER PROGRAMMING FOR BIOTECHNOLOGISTS
Bio-Technology

Time: 3 hours**Max Marks: 80**

Answer any FIVE Questions
All Questions carry equal marks

1. (a) Distinguish between structure and constructs in C.
 (b) Write a program using structure to read and write employee details of an organization. The field of the structure are: [4+12]

Field Name	Data Type
name	string
designation	string
salary	float
dept	string

2. Write a brief notes on the following:
 (a) Multi-processing operating system
 (b) Time sharing system
 (c) Multi tasking OS
 (d) Batch Processing. [4+4+4+4]
3. Write a SBML program to count the no. of nucleotides in a sequences. [16]
4. What is a data structure? Explain the various types of data structures with suitable example. [4+12]
5. (a) What are the different types of memories? Describe their capabilities.
 (b) Compare and contrast the differences between ROM and RAM and give their applications. [8+8]
6. (a) Write about hierarchical databases and network databases.
 (b) Write about relational databases and object oriented databases. [8+8]
7. (a) Summarize the syntactic rules associated with the do-while statement. Compare it with the while statement.
 (b) Write a C program that will read a positive integer, determine and print its binary equivalent.
 (c) Write a program to generate 10 Fibonacci numbers using do....While loop. [4+6+6]
8. (a) Write in detail about different storage classes with an example.

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- (b) Write a function that will round a floating-point number to an indicated decimal place. For example the number 17.457 would yield the value 17.46 when it is rounded off to two decimal places. [8+8]
