

Code No: R05012301

R05**Set No. 2**

I B.Tech Examinations, December 2010
COMPUTER PROGRAMMING FOR BIOTECHNOLOGISTS
Bio-Technology

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
 All Questions carry equal marks

1. Write a biojava program to construct codon table of amino acids. [16]
2. (a) How are initial values written in a one-dimensional array definition? Is the entire array be initialized? What value is automatically assigned to those array elements not explicitly initialized?
 (b) Write a program to calculate mean, variance and standard deviation of n numbers.

$$S = \sqrt{\text{variance}},$$
 where

$$\text{Variance} = 1/n \sum (x_i - m)^2$$
 m = mean of n numbers. [10+6]
3. Write short notes on:
 - (a) Windows
 - (b) Windows-NT
 - (c) UNIX
 - (d) DOS. [4+4+4+4]
4. What is a Circular Queue? Explain the various operations on Circular Queues with suitable algorithms. [4+12]
5. (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]
6. Distinguish between the following:
 - (a) Actual and formal arguments.
 - (b) Global and local variables.
 - (c) Automatic and static variables. [5+5+6]
7. (a) What is a computer? With the help of a block diagram explain the parts of a computer.

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- (b) Describe the role of a CPU in computers. [8+8]
8. (a) Explain the different ways of passing structure as arguments in functions.
- (b) Write a C program to illustrate the method of sending an entire structure as a parameter to a function. [6+10]

FIRSTRANKER

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R05**Set No. 4**

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Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
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1. Write short notes on:

- (a) Windows
- (b) Windows-NT
- (c) UNIX
- (d) DOS. [4+4+4+4]

2. (a) What is a computer? With the help of a block diagram explain the parts of a computer.

- (b) Describe the role of a CPU in computers. [8+8]

3. (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]

4. Distinguish between the following:

- (a) Actual and formal arguments.
- (b) Global and local variables.
- (c) Automatic and static variables. [5+5+6]

5. Write a biojava program to construct codon table of amino acids. [16]6. What is a Circular Queue? Explain the various operations on Circular Queues with suitable algorithms. [4+12]

7. (a) Explain the different ways of passing structure as arguments in functions.

- (b) Write a C program to illustrate the method of sending an entire structure as a parameter to a function. [6+10]

8. (a) How are initial values written in a one-dimensional array definition? Is the entire array be initialized? What value is automatically assigned to those array elements not explicitly initialized?

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(b) Write a program to calculate mean, variance and standard deviation of n numbers.

$$S = \sqrt{\text{variance}},$$

where

$$\text{Variance} = 1/n \sum (x_i - m)^2$$

m = mean of n numbers.

[10+6]

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R05**Set No. 1**

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Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
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1. Write a biojava program to construct codon table of amino acids. [16]
2. (a) What is a computer? With the help of a block diagram explain the parts of a computer.
 (b) Describe the role of a CPU in computers. [8+8]
3. (a) Explain the different ways of passing structure as arguments in functions.
 (b) Write a C program to illustrate the method of sending an entire structure as a parameter to a function. [6+10]
4. (a) How are initial values written in a one-dimensional array definition? Is the entire array be initialized? What value is automatically assigned to those array elements not explicitly initialized?
 (b) Write a program to calculate mean, variance and standard deviation of n numbers.
 $S = \sqrt{\text{variance}}$,
 where
 $\text{Variance} = 1/n \sum (x_i - m)^2$
 m = mean of n numbers. [10+6]
5. What is a Circular Queue? Explain the various operations on Circular Queues with suitable algorithms. [4+12]
6. Distinguish between the following:
 - (a) Actual and formal arguments.
 - (b) Global and local variables.
 - (c) Automatic and static variables. [5+5+6]
7. Write short notes on:
 - (a) Windows
 - (b) Windows-NT
 - (c) UNIX
 - (d) DOS. [4+4+4+4]
8. (a) Summarize the syntactic rules associated with the do-while statement. Compare it with the while statement.

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- (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]

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R05**Set No. 3**

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Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
 All Questions carry equal marks

1. What is a Circular Queue? Explain the various operations on Circular Queues with suitable algorithms. [4+12]
2. (a) What is a computer? With the help of a block diagram explain the parts of a computer.
 (b) Describe the role of a CPU in computers. [8+8]
3. (a) How are initial values written in a one-dimensional array definition? Is the entire array be initialized? What value is automatically assigned to those array elements not explicitly initialized?
 (b) Write a program to calculate mean, variance and standard deviation of n numbers.

$$S = \sqrt{\text{variance}}$$
 where

$$\text{Variance} = 1/n \sum (x_i - m)^2$$
 m = mean of n numbers. [10+6]
4. Write a biojava program to construct codon table of amino acids. [16]
5. (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]
6. Write short notes on:
 - (a) Windows
 - (b) Windows-NT
 - (c) UNIX
 - (d) DOS. [4+4+4+4]
7. Distinguish between the following:
 - (a) Actual and formal arguments.
 - (b) Global and local variables.

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- (c) Automatic and static variables. [5+5+6]
8. (a) Explain the different ways of passing structure as arguments in functions.
- (b) Write a C program to illustrate the method of sending an entire structure as a parameter to a function. [6+10]

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