

Code No: R07A1EC01

**R07****Set No. 2**

**I B.Tech Examinations, December 2010**  
**C PROGRAMMING AND DATA STRUCTURES**  
Common to CE, CHEM, BME, IT, AE, BT, ICE, E.COMP.E, ETM,  
E.CONT.E, EIE, CSE, ECE, CSSE, EEE

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions  
All Questions carry equal marks

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1. Write a program to implement pointers in multi - dimensional array? [16]
2. (a) What is a network?  
(b) What is a spanning tree?  
(c) Define minimal spanning tree.  
(d) What are the various traversals in a tree? [4+4+4+4]
3. Write a program to sort the elements whose worst and average case are  $O(n^2)$ . [16]
4. How to copy one structure to another structure of a same data type, give an example? [16]
5. What do you mean by data structure? Explain about linear data structure. [16]
6. (a) Define Algorithm.  
(b) What is the use of flowchart?  
(c) What are the different steps followed in the program development? [3+3+10]
7. Comparison the following:
  - (a) while loop with and without function
  - (b) for loop with and without function.
  - (c) do while loop with and without function. [5+5+6]
8. (a) Write the syntax for opening a file with various modes and closing a file.  
(b) Explain about file handling functions. [8+8]

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Code No: R07A1EC01

**R07****Set No. 4**

**I B.Tech Examinations, December 2010**  
**C PROGRAMMING AND DATA STRUCTURES**  
 Common to CE, CHEM, BME, IT, AE, BT, ICE, E.COMP.E, ETM,  
 E.CONT.E, EIE, CSE, ECE, CSSE, EEE

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions  
 All Questions carry equal marks

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1. Write a program to sort the elements whose worst and average case are  $O(n^2)$ . [16]
2. (a) What is a network?  
 (b) What is a spanning tree?  
 (c) Define minimal spanning tree.  
 (d) What are the various traversals in a tree? [4+4+4+4]
3. Comparison the following:
  - (a) while loop with and without function
  - (b) for loop with and without function.
  - (c) do while loop with and without function. [5+5+6]
4. (a) Write the syntax for opening a file with various modes and closing a file.  
 (b) Explain about file handling functions. [8+8]
5. (a) Define Algorithm.  
 (b) What is the use of flowchart?  
 (c) What are the different steps followed in the program development? [3+3+10]
6. Write a program to implement pointers in multi - dimensional array? [16]
7. How to copy one structure to another structure of a same data type, give an example? [16]
8. What do you mean by data structure? Explain about linear data structure. [16]

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Code No: R07A1EC01

**R07****Set No. 1**

**I B.Tech Examinations, December 2010**  
**C PROGRAMMING AND DATA STRUCTURES**  
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 E.CONT.E, EIE, CSE, ECE, CSSE, EEE

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions  
 All Questions carry equal marks

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1. Write a program to implement pointers in multi - dimensional array? [16]
2. Comparison the following:
  - (a) while loop with and without function
  - (b) for loop with and without function.
  - (c) do while loop with and without function. [5+5+6]
3. (a) What is a network?  
 (b) What is a spanning tree?  
 (c) Define minimal spanning tree.  
 (d) What are the various traversals in a tree? [4+4+4+4]
4. (a) Define Algorithm.  
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5. How to copy one structure to another structure of a same data type, give an example? [16]
6. (a) Write the syntax for opening a file with various modes and closing a file.  
 (b) Explain about file handling functions. [8+8]
7. What do you mean by data structure? Explain about linear data structure. [16]
8. Write a program to sort the elements whose worst and average case are  $O(n^2)$ . [16]

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Code No: R07A1EC01

**R07****Set No. 3**

**I B.Tech Examinations, December 2010**  
**C PROGRAMMING AND DATA STRUCTURES**  
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E.CONT.E, EIE, CSE, ECE, CSSE, EEE

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions  
All Questions carry equal marks

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1. Write a program to sort the elements whose worst and average case are  $O(n^2)$ . [16]
2. What do you mean by data structure? Explain about linear data structure. [16]
3. (a) Write the syntax for opening a file with various modes and closing a file.  
(b) Explain about file handling functions. [8+8]
4. Compare the following:
  - (a) while loop with and without function
  - (b) for loop with and without functions.
  - (c) do while loop with and without function. [5+5+6]
5. (a) What is a network?  
(b) What is a spanning tree?  
(c) Define minimal spanning tree.  
(d) What are the various traversals in a tree? [4+4+4+4]
6. (a) Define Algorithm.  
(b) What is the use of flowchart?  
(c) What are the different steps followed in the program development? [3+3+10]
7. How to copy one structure to another structure of a same data type, give an example? [16]
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