

Code No: 07A3EC20

R07**Set No. 2**

II B.Tech I Semester Examinations, MAY 2011
ADVANCED DATA STRUCTURES AND ALGORITHMS
Common to Information Technology, Computer Science And Systems
Engineering

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

Answer any FIVE Questions
All Questions carry equal marks

1. How to implement run time polymorphism using virtual function? [16]
2. (a) Define queue? Explain priority queue with suitable example.
(b) List a few application of priority queue? [8+8]
3. (a) Explain the AND/OR graph with an example?
(b) Describe worst - case time for quick sort? [8+8]
4. Write a program to implement kruskals algorithm? [16]
5. (a) Explain ideal hashing with an example
(b) Examine the time complexities to perform the find, insert, and erase operations in a dictionary. [8+8]
6. (a) Explain the operations on red black trees?
(b) Write the procedures to perform deletion in a binary search tree? [8+8]
7. Write a program to implement Deque Operations in C++. [16]
8. (a) Define this pointer? What are the applications of this pointer?
(b) How to tell the compiler to make a member function inline? [8+8]

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R07**Set No. 4**

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1. (a) Define this pointer? What are the applications of this pointer?
(b) How to tell the compiler to make a member function inline? [8+8]
2. Write a program to implement Deque Operations in C++. [16]
3. Write a program to implement kruskals algorithm? [16]
4. (a) Explain ideal hashing with an example
(b) Examine the time complexities to perform the find, insert, and erase operations in a dictionary. [8+8]
5. (a) Explain the AND/OR graph with an example?
(b) Describe worst - case time for quick sort? [8+8]
6. (a) Explain the operations on red black trees?
(b) Write the procedures to perform deletion in a binary search tree? [8+8]
7. (a) Define queue? Explain priority queue with suitable example.
(b) List a few application of priority queue? [8+8]
8. How to implement run time polymorphism using virtual function? [16]

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R07**Set No. 1**

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1. (a) Define this pointer? What are the applications of this pointer?
(b) How to tell the compiler to make a member function inline? [8+8]
2. How to implement run time polymorphism using virtual function? [16]
3. (a) Explain the operations on red black trees?
(b) Write the procedures to perform deletion in a binary search tree? [8+8]
4. (a) Explain the AND/OR graph with an example?
(b) Describe worst - case time for quick sort? [8+8]
5. (a) Explain ideal hashing with an example
(b) Examine the time complexities to perform the find, insert, and erase operations in a dictionary. [8+8]
6. Write a program to implement Deque Operations in C++. [16]
7. Write a program to implement kruskals algorithm? [16]
8. (a) Define queue? Explain priority queue with suitable example.
(b) List a few application of priority queue? [8+8]

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R07**Set No. 3**

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Answer any FIVE Questions
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1. (a) Explain the AND/OR graph with an example?
(b) Describe worst - case time for quick sort? [8+8]
2. (a) Explain ideal hashing with an example
(b) Examine the time complexities to perform the find, insert, and erase operations in a dictionary. [8+8]
3. Write a program to implement kruskals algorithm? [16]
4. Write a program to implement Deque Operations in C++. [16]
5. (a) Define this pointer? What are the applications of this pointer?
(b) How to tell the compiler to make a member function inline? [8+8]
6. (a) Define queue? Explain priority queue with suitable example.
(b) List a few application of priority queue? [8+8]
7. (a) Explain the operations on red black trees?
(b) Write the procedures to perform deletion in a binary search tree? [8+8]
8. How to implement run time polymorphism using virtual function? [16]
