

Name:
Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Semester Examination, July 2020

Course: Design and Analysis of Algorithms
Program: B.Tech.
Course Code: CSEG2003

Semester: 4th
Time 02 hrs.
Max. Marks: 100

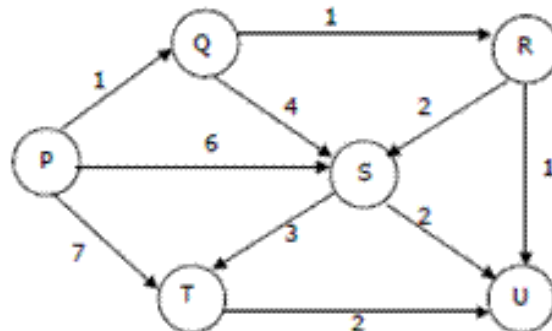
Instructions: Attempt all questions

Points: 2

1. Multiple Choice: Q1.: Suppose we run Dijkstra's single source...

Question

Suppose we run Dijkstra's single source shortest-path algorithm on the following edge weighted directed graph with vertex P as the source. In what order do the nodes get included into the set of vertices for which the shortest path distances are finalized?



Answer

a. P,Q,R,S,T,U

b. P,Q,R,U,S,T

c. P,Q,R,U,T,S

d. P,Q,T,R,U,S

Points: 2

2. Multiple Choice: Q2.: A networking company uses a compressi...

Question	A networking company uses a compression technique to encode the message before transmitting over the network. Suppose the message contains the following characters with their frequency: Char. Freq. a 5 b 9 c 12 d 13 e 16 f 45 Each character in input message takes 1 byte. If the compression technique used is Huffman Coding, how many bits will be saved in the message?
Answer	a. 224 b. 800 c. 556 d. 324

Points: 2

3. Multiple Choice: Q3.: The minimum number of record mo...

Question	The minimum number of record movements required to merge five files A (with 8 records), B (with 20 records), C (with 16 records), D (with 5 records) and E (with 23 records) is:
Answer	a. 120

b. 157

c. 73

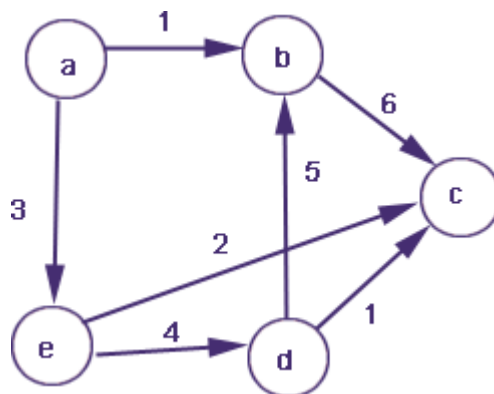
d. 79

4. Multiple Choice: Q4.: In the given graph: Identifi...

Points:

Question

In the given graph:



Identify the shortest path having minimum cost to reach vertex 'e' if 'a' is the source vertex.

Answer

a. a-b-e

b. a-c-e

c. a-c-d-e

d. a-c-d-b-e

5. Multiple Choice: Q5.: What is the minimum height for a bina...

Points:

Question

What is the minimum height for a binary search tree with 6 nodes?

Answer

a. 1

b. 3

c. 4

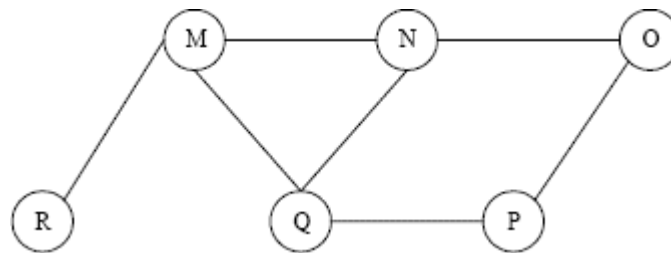
d. 2

Points: **2**

6. Multiple Choice: Q6.: The Breadth First Search algorithm ha...

Question

The Breadth First Search algorithm has been implemented using the queue data structure. One possible order of visiting the nodes of the following graph is



Answer

a. MNOPQR

b. QMNPRO

c. ONMRPQ

d. QPORNM

Points: **2**

7. Multiple Choice: Q7.: Let G be an undirected graph. Consider...

Question

Let G be an undirected graph. Consider a depth-first traversal of G, and let T be the resulting depth-first search tree. Let u be a vertex in G and let v be the first new (unvisited) vertex visited after visiting u in the traversal. Which of the following statements is always true?

Answer

a. $\{u,v\}$ must be an edge in G, and u is a descendant of v in T

b. $\{u,v\}$ must be an edge in G, and v is a descendant of u in T

c. If $\{u,v\}$ is not an edge in G then u is a leaf in T

d. If $\{u,v\}$ is not an edge in G then u and v must have the same parent in T

Points: 2

8. Multiple Choice: Q8.: An automobile company has a sequence ...

Question An automobile company has a sequence of jobs to perform. The jobs are named as (1, 2, 3, 4, 5, 6) and the associated profit of these jobs are (35, 20, 18, 16, 30). A penalty is also associated with these jobs if not get within the deadline. The deadline of these jobs are (1, 3, 4, 3, 2, 1, 2). Job assignment is done using Greedy strategy and penalty cost of the jobs left. Assume that the penalty if misses the deadline is 10/job. Which is the correct assignment and penalty cost?

Answer

a. (1,5,6) and 30

b. (7,6,4,3) and 20

c. (2,1,7) and 40

d. (1,3) and 40

Points: 2

9. Multiple Choice: Q9.: Consider the weights and values of it...

Question Consider the weights and values of items listed below. Note that there is only one unit of each item.

S. No.	Weight	Value
1	10	60
2	7	28
3	4	20
4	2	24

The task is to pick a subset of these items such that their total weight is no more than 11 Kgs and their total value is maximized. Moreover, no item may be split. The total value of items picked by an optimal algorithm is denoted by V_{opt} . A greedy algorithm sorts the items by their value-to-weight ratios in descending order and packs them greedily, starting from the first item in the ordered list. The total value of items picked by the greedy algorithm is denoted by V_{greedy} . The value of $V_{opt} - V_{greedy}$ is:

Answer

a. 16

b. 8

c. 44

Points: 2

10. True / False: Q10.: In a weighted graph, assume that the ...

Question	In a weighted graph, assume that the shortest path from a source 's' to a destination 't' is correctly calculated using a shortest path algorithm. Is the following statement true? If we increase weight of every edge by 1, the shortest path always remains same.
Answer	<p>True</p> <p><input checked="" type="checkbox"/> False</p>

Points: 1

11. Multiple Choice: Q11.: Consider $f(x)$ and $g(x)$ are two functi...

Question	Consider $f(x)$ and $g(x)$ are two functions such that $f(x) = n^3$ and $g(x) = 3n$, which of the following asymptotic equality holds true:
Answer	<p>a. $f(n) = \Theta(g(n))$</p> <p><input checked="" type="checkbox"/> b. $f(n) = \text{big Omega}(g(n))$</p> <p>c. $g(n) = O(f(n))$</p> <p>d. $f(n) = O(g(n))$</p>

Points: 1

12. Multiple Choice: Q12.: For any two functions $f(n)$ and $g(n)$, ...

Question	For any two functions $f(n)$ and $g(n)$, we have $f(n) = \Theta(g(n))$ if and only if
Answer	<p>a. $f(n) = O(g(n))$</p> <p>b. $f(n) = \Omega(g(n))$</p> <p><input checked="" type="checkbox"/> c. Both of these</p> <p>d. None of these</p>

13. Multiple Choice: Q13.: Which of the following is true?

Points: 1

Question	Which of the following is true?
Answer	<p>a. A graph may contain no edges and many vertices</p> <p>b. A graph may contain no edges and no vertices</p> <p><input checked="" type="checkbox"/> c. A graph may contain many edges and no vertices</p> <p>d. A graph may contain no vertices and many edges</p>

14. Multiple Choice: Q14.: For a given graph G having v vertices...

Points: 1

Question	For a given graph G having v vertices and e edges which is connected and has no cycles, which of the following statements is true?
Answer	<p>a. $v=e$</p> <p>b. $v + 1 = e$</p> <p>c. $v = e-1$</p> <p><input checked="" type="checkbox"/> d. $v = e+1$</p>

15. Multiple Choice: Q15.: A graph with all vertices havin...

Points: 1

Question	A graph with all vertices having equal degree is known as a _____
Answer	<p>a. Multi Graph</p> <p>b. Simple Graph</p> <p>c. Complete Graph</p>

d. Regular Graph

Points: 1

16. Multiple Choice: Q16.: Which of the following ways can be us...

Question	Which of the following ways can be used to represent a graph?
Answer	<p>a. No way to represent</p> <p>b. Incidence Matrix</p> <p><input checked="" type="checkbox"/> c. Adjacency List, Adjacency Matrix as well as Incidence Matrix</p> <p>d. Adjacency List and Adjacency Matrix</p>

Points: 1

17. Multiple Choice: Q17.: The number of elements in the a...

Question	The number of elements in the adjacency matrix of a graph having 7 vertices is _____
Answer	<p>a. 14</p> <p><input checked="" type="checkbox"/> b. 49</p> <p>c. 36</p> <p>d. 7</p>

Points: 1

18. Multiple Choice: Q18.: In Huffman coding, data in a tree alw...

Question	In Huffman coding, data in a tree always occur?
Answer	<p><input checked="" type="checkbox"/> a. leaves</p> <p>b. left sub trees</p>

c. roots

d. right sub trees



19. Multiple Choice: Q19.: Which of the following algorithm desi...

Points: 1

Question Which of the following algorithm design technique is used in the quick sort algorithm?

Answer a. Divide-and-conquer

b. Backtracking

c. Dynamic programming

d. Greedy method



20. Multiple Choice: Q20.: Time complexity of counting sort is&n...

Points: 1

Question Time complexity of counting sort is

Answer a. Linear

b. Quadratic

c. Exponential

d. None of these



21. Multiple Choice: Q21.: What is a chromatic number?
/** ...

Points: 1

Question What is a chromatic number?

Answer

- a. The maximum number of colors required for proper edge coloring of graph
- b. The minimum number of colors required for proper vertex coloring of graph
- c. The maximum number of colors required for proper vertex coloring of graph
- d. The minimum number of colors required for proper edge coloring of graph



22. Multiple Choice: Q22.: Class of graph coloring problem is&nb...

Points: **1**

Question

Class of graph coloring problem is

Answer

- a. P
- b. NP
- c. NP hard
- d. NPComplete



23. Multiple Choice: Q23.: Which data structure will be used for...

Points: **1**

Question

Which data structure will be used for implementation of LC branch and bound

Answer

- a. Array
- b. Stack
- c. Queue
- d. PriorityQueue



24. Multiple Choice: Q24.: Let X be a problem that belongs to th...

Points: **1**

Question	Let X be a problem that belongs to the class NP. Then which one of the following is true?
Answer	<p>a. There is no polynomial time algorithm for X.</p> <p>b. If X can be solved deterministically in polynomial time, then $P = NP$.</p> <p><input checked="" type="checkbox"/> c. If X is NP-hard, then it is NP-complete.</p> <p>d. X may be undecidable.</p>



25. Multiple Choice: Q25.: We use dynamic programming approach w...

Points: **1**

Question	We use dynamic programming approach when
Answer	<p>a. It can be implemented on 0—1 knapsack problem</p> <p><input checked="" type="checkbox"/> b. The solution has optimal substructure</p> <p>c. The given problem can be reduced to the 3-SAT problem</p> <p>d. The brute-force algorithm is not applicable</p>



26. Multiple Choice: 26.: A sorting technique is called stable

...

Points: **1**

Question	A sorting technique is called stable if
Answer	<p>a. it takes $O(n \log n)$ time</p> <p><input checked="" type="checkbox"/> b. it maintains the relative order of occurrence of non-distinct elements</p> <p>c. it uses divide and conquer strategy</p> <p>d. it takes $O(n)$ space</p>

Points: 1

27. Multiple Choice: 27.: The median of n elements can be found...

Question	The median of n elements can be found in $O(n)$ time. Which one of the following is correct about the complexity of quick sort, in which remains is selected as pivot?
Answer	<p>a. $\Theta(n)$</p> <p><input checked="" type="checkbox"/> b. $\Theta(n \log n)$</p> <p>c. $\Theta(n^2)$</p> <p>d. $\Theta(n^3)$</p>

Points: 1

28. Multiple Choice: Q28.: Select the correct recursive fo...

Question	Select the correct recursive formulation for Fibonacci series. ($n \geq 1$)
Answer	<p>a. $F(n) = F(n+1) + F(n+2)$</p> <p>b. $F(n) = F(n) + F(n+1)$</p> <p><input checked="" type="checkbox"/> c. $F(n) = F(n-1) + F(n-2)$</p> <p>d. $F(n) = F(n-1) - F(n-2)$</p>

Points: 1

29. Multiple Choice: Q29.: Given a one-dimensional array of inte...

Question	Given a one-dimensional array of integers, you have to find a sub-array with maximum sum. This is the maximum sub-array sum problem. Which of these methods can be used to solve the problem?
Answer	<p>a. Dynamic programming</p> <p>b. Two for loops (naive method)</p> <p>c. Divide and conquer</p>

- d. Dynamic Programming, naive method and Divide and conquer methods.

Points: **1**

30. Multiple Choice: Q30.: What is the time complexity of Huffma...

Question	What is the time complexity of Huffman Coding?
Answer	<p>a. $O(n)$</p> <p><input checked="" type="checkbox"/> b. $O(n \log n)$</p> <p>c. $O(n^2)$</p> <p>d. None of these</p>

Points: **2**

31. Multiple Choice: Q31.: Solve the recurrence $T(n) = 3T(\sqrt{n}) + \dots$

Question	Solve the recurrence $T(n) = 3T(\sqrt{n}) + \log n$ by making a change of variables. Your solution should be asymptotically tight.
Answer	<p>a. As does not fit with master theorem, can't be solved</p> <p><input checked="" type="checkbox"/> b. $\Theta((\log n)^{\log 3})$</p> <p>c. $\Theta(\log n)$, assume log base 2.</p> <p>d. $O((\log n)^{\log 3})$</p>

Points: **2**

32. Multiple Choice: Q32.: `void fun(int n, int arr[]) { int i=...`

Question	
----------	--

```
void fun(int n, int arr[])
{
int i=0, j=0;
for ( ; i<n ; ++i )
while ( j < n && arr[i] < arr[j])
j++;
}
```

The time complexity of the given code snippet is:

Answer

a. $O(\log n)$

b. $O(n)$

c. $O(n^2)$

d. $O(n \log n)$

33. Multiple Choice: Q33.: int f(int n) { if(n <= 1) retur...

Points: 2

Question

```
int f(int n)
{
if(n <= 1)
return 1;
if(n%2 == 0)
return f(n/2);
return f(n/2) + f(n/2+1);
}

int main()
{
printf("%d", f(10));
return 0;
}
```

What is the output of this recursive function call.

Answer

a. 5

b. 4

c. 3

d. Stack Overflow Error



Points: **2**

34. Multiple Choice: Q34.: The recurrence relation $T(n) = \dots$

Question	The recurrence relation $T(n) = 2T(n-1) + a$, $T(0) = b$ where a and b are some constants is having equivalent asymptotic notation:
Answer	<p>a. $O(n * 2^n)$</p> <p>b. $O(n^2)$</p> <p>c. $O(n^2 * 2^n)$</p> <p><input checked="" type="checkbox"/> d. $O(2^n)$</p>



Points: **2**

35. Multiple Choice: Q35.: Select the correct asymptotic complex...

Question	Select the correct asymptotic complexity of an algorithm with runtime $T(n, n)$ where $T(x, c) = \Theta(x)$ for $c \leq 2$, $T(c, y) = \Theta(y)$ for $c \leq 2$, and $T(x, y) = \Theta(x+y) + T(x/2, y/2)$
Answer	<p>a. $\Theta(n \log n)$</p> <p>b. $\Theta(n^2 \log n)$</p> <p><input checked="" type="checkbox"/> c. $\Theta(n)$</p> <p>d. $\Theta(n^2)$</p>



Points: **2**

36. Multiple Choice: Q36.: Consider the following functions from...

Question	Consider the following functions from positive integers to real numbers $n!$, n^2 , \sqrt{n} , $\log n^2$, $\log 2n$, $1/n$. The CORRECT arrangement of asymptotic complexity is:
Answer	a. $n^2, \sqrt{n}, \log n^2, \log 2n, 1/n, n!$

b. None of these

c. $1/n, \sqrt{n}, \log 2n, \log n^2, n^2, n!$

d. $\sqrt{n}, 1/n, n!, \log 2n, \log n^2, n^2$

Points: **2**

37. Multiple Choice: Q37.: Recurrence relation for fibonacci pro...

Question	Recurrence relation for fibonacci problem is
Answer	<input checked="" type="checkbox"/> a. $T(n)=T(n-1)+T(n-2)$ b. $T(n)=T(n/2)+ \log n$ c. $T(n)=2T(n/2) + n^2$ d. $T(n)=T(n-1) +n$

Points: **2**

38. Multiple Choice: Q38.: Let $T(n)$ be the total number of binar...

Question	Let $T(n)$ be the total number of binary sequence of length n . Which of the following correctly depict the equivalent recurrence relation for $T(n)$.
Answer	 a. $T(n)=T(n-1) * T(n-2), n>2$ and $T(2) =1, T(1) =1$ b. $T(n)=T(n-1) + T(n-2), n>2$ and $T(2) =2, T(1) =2$ <input checked="" type="checkbox"/> c. $T(n)=T(n-1) + T(n-2), n>2$ and $T(2) =3, T(1) =2$ d. $T(n)=T(n-1) + T(n-2), n>2$ and $T(2) =3, T(1) =1$

Points: **2**

39. Multiple Choice: Q39.: The given recurrence relation is $T(n)$...

Question	The given recurrence relation is $T(n) = 2T(n-2) - 15$; $T(2) = 40$ and $T(1) = 40$. The mean of $T(0)$ and $T(3)$ be_____.
Answer	<p>a. 60</p> <p><input checked="" type="checkbox"/> b. 46.25</p> <p>c. 120</p> <p>d. 32.5</p>


 Points: **2**

40. Multiple Choice: Q40.: For the given pseudo code snippet, fi...

Question	<p>For the given pseudo code snippet, find the recurrence relation.</p> <pre> A() { if (n>1) return A(n-1) }. </pre>
Answer	<p>a. $T(n) = 1 + T(n-2)$</p> <p><input checked="" type="checkbox"/> b. $T(n) = 1 + T(n-1)$</p> <p>c. $T(n) = 1 + T(n/2)$</p> <p>d. $T(n) = T(n-1)$</p>


 Points: **2**

41. Multiple Choice: Q41.: What is the optimal profit for the fo...

Question	<p>What is the optimal profit for the following instance of 0/1 knapsack problem using dynamic programming; Items: { Apple, Orange, Banana, Melon }, Weight: { 2, 3, 1, 4 }, Profit: { 4, 5, 3, 7 }, Knapsack capacity: 5</p>
Answer	<p>a. 10</p> <p><input checked="" type="checkbox"/> b. 11</p>

c. 12

d. 9

Points: 2

42. Multiple Choice: Q42.: Explicit constraint for 8 queen probl...

Question	Explicit constraint for 8 queen problem is
Answer	<p>a. {1,2,3,4}</p> <p><input checked="" type="checkbox"/> b. {1,2,3,4,5,6,7,8}</p> <p>c. {1,1,1,1,0,0,0,0}</p> <p>d. {1,0,1,0,1,0,1,0}</p>

Points: 2

43. Multiple Choice: Q43.: What is the chromatic number of a gra...

Question	What is the chromatic number of a graph having n isolated vertices
Answer	<p>a. 0</p> <p><input checked="" type="checkbox"/> b. 1</p> <p>c. n</p> <p>d. n+1</p>

Points: 2

44. Multiple Choice: Q44.: Quicksort is running on two inputs sh...

Question

Quicksort is running on two inputs shown below to sort in ascending order

(i) 1,2,3..... n

(ii) n, n-1, n-2,.... , 2, 1

Let C1 and C2 be the number of comparisons made for the inputs (i) and (ii) respectively. Then,

Answer

a. $C1 < C2$

b. $C1 > C2$

c. $C1 = C2$

d. It cannot be defined due to arbitrary value of "n"



Points: 2

45. Multiple Choice: 45.: If one uses straight two-way merge so...

Question

If one uses straight two-way merge sort algorithm to sort the following elements in ascending order:

24, 47, 15, 8, 9, 4, 40, 30, 12, 17

then the order of these elements after second pass of the algorithms is

Answer

a. 8,9,15,20,47,4,12,17,30,40

b. 8,15,20,47,4,9,30,40,12,17

c. 15, 20, 47,4,8,9,12,30,40,17

d. 4,8,9,15,20,47,12,17,30,40



Points: 2

46. Multiple Choice: Q46.: Let s be a sorted array of n integers...

Question

Let s be a sorted array of n integers. Let $t(n)$ denote the time taken for the most efficient algorithm to determine if there are two elements with sum less than 1000 in s. Which of the following statements is true?

Answer

a. $t(n)$ is $O(1)$

b. $n \leq t(n) \leq n \log n$

c. m

d. none of above



47. Multiple Choice: Q47.: In the following C function, let n&g...

Points: **2**

Question

In the following C function,

```
let n>=m.
```

```
int gcd(n, m)
```

```
{
```

```
if (n%m==0)
```

```
return m;
```

```
n=n%m;
```

```
return gcd (m,n);
```

```
}
```

How many recursive calls are made by this function?

Answer

a. Theta(logn)

b. Omega (n)

c. Theta(log log n)

d. Theta (n^(1/2))



48. Multiple Choice: Q48.: What will be the space complexity of ...

Points: **2**

Question

What will be the space complexity of the following code?

```
#include<stdio.h>

int power(int x, int y)
{
    if (y == 0)
        return 1;
    else if (y%2 == 0)
        return power(x, y/2)*power(x, y/2);
    else
        return x*power(x, y/2)*power(x, y/2);
}

int main()
{
    int x = 2;
    int y = 3;
    printf("%d", power(x, y));
    return 0;
}
```

Answer

a. $O(1)$

b. $O(n)$

c. $O(n^2)$

d. $O(n \log n)$



49. Multiple Choice: Q49.: Which of the following recurrence rel...

Points: **2**

Question

Which of the following recurrence relation Strassen's multiplication applies?

Answer

a. $7T(n/2) + \Theta(n^2)$

b. $8T(n/2) + \Theta(n^2)$

c. $8T(n/2) + O(n^2)$

$$d. 7T(n/2) + O(n^2)$$

Points: **2**

50. Multiple Choice: Q50.: In quick sort, for sorting n elements...

Question In quick sort, for sorting n elements, the $(n/4)$ th smallest element is selected as pivot using an $O(n)$ time algorithm. What is the worst case time complexity of the quick sort?

- Answer**
- a. $\Theta(n)$
 - b. $\Theta(n \log n)$
 - c. $\Theta(n^2)$
 - d. $\Theta(n^2 \log n)$

Points: **2**

51. Multiple Choice: Q51.: Let P be a quicksort program to sort ...

Question Let P be a quicksort program to sort numbers in ascending order. Let t_1 and t_2 be the time taken by the program for the inputs $[1\ 2\ 3\ 4]$ and $[5\ 4\ 3\ 2\ 1]$ respectively. Which of the following holds?

- Answer**
- a. $t_1 = t_2$
 - b. $t_1 > t_2$
 - c. $t_1 < t_2$
 - d. $t_1 = t_2 + 5 \log 5$

Points: **2**

52. Multiple Choice: Q52.: "Given 10 activities along with their...

Question

"Given 10 activities along with their start and finishing time as: $S = (A1, A2, A3, A4, A5, A6, A7, A8, A9, A10)$, $S_i = (1, 2, 3, 4, 7, 8, 9, 9, 11, 12)$, $f_i = (3, 5, 4, 7, 10, 9, 11, 13, 12, 14)$, Compute a schedule where the greatest number of activities takes place."

Answer

a. (A1, A3, A4, A7, A9, A6, A10)

b. (A1, A3, A4, A6, A7, A9, A10)

c. (A1, A8, A7, A4, A6, A10)

d. (A1, A8, A5, A4, A6, A3, A10)



53. Multiple Choice: Q53.: Find the optimal activity schedule fo...

Points: 2

Question

Find the optimal activity schedule for the following task with given weight (w_i) (penalties) and deadlines (d_i) for a uniprocessor machine using greedy approach. Tasks: (T1, T2, T3, T4, T5, T6, T7), $d_i = (4, 2, 4, 3, 1, 4, 6)$, $w_i = (70, 60, 50, 40, 30, 20, 10)$

Answer

a. 2 4 1 3 7 5 6

b. 1 4 3 7 6 5

c. 2 4 3 1 7 5 6

d. 2 3 4 1 7 5 6



54. Multiple Choice: Q54.: Given items as {profi,weight} pairs {...

Points: 2

Question

Given items as {profi,weight} pairs $\{(40,20),\{30,10\},\{20,5\}$. The capacity of knapsack=20. Find the maximum value output assuming items to be divisible

Answer

a. 60

b. 80

c. 100

d. 120

Points: 2

55. Multiple Choice: Q55.: Suppose we are sorting an array of ei...

Question	Suppose we are sorting an array of eight integers using quicksort, and we have just finished the first partitioning with the array looking like this: [2, 5, 1, 7, 9, 12, 11, 10] then Which statement is correct?
Answer	<p>a. The pivot could be the 7, but it is not the 9</p> <p>b. The pivot is not the 7, but it could be the 9</p> <p><input checked="" type="checkbox"/> c. The pivot could be either the 7 or the 9</p> <p>d. Neither the 7 nor the 9 is the pivot</p>

Points: 2

56. Multiple Choice: Q56.: How many times the insert and extract...

Question	How many times the insert and extract min operations are invoked per vertex in Dijkstra's algorithm?
Answer	<p><input checked="" type="checkbox"/> a. 1</p> <p>b. 2</p> <p>c. 3</p> <p>d. 4</p>

Points: 2

57. Multiple Choice: Q57.: What is the time complexity of Bellma...

Question	What is the time complexity of Bellman-Ford single-source shortest path algorithm on a completegraph of n vertices?
Answer	<p>a. $\Theta(n^2 \log n)$</p>

b. $\Theta(n^2)$

c. $\Theta(n^3)$

d. $\Theta(n^3 \log n)$

Points: **2**

58. Multiple Choice: Q58.: Knapsack problem can be solved using ...

Question	Knapsack problem can be solved using
Answer	<p>a. Greedy approach</p> <p>b. Dynamic Programming Approach</p> <p>c. Backtracking Approach</p> <p><input checked="" type="checkbox"/> d. All of the above</p>

Points: **2**

59. Multiple Choice: Q59.: Dijkstra algorithm gives correct resu...

Question	Dijkstra algorithm gives correct result when
Answer	<p><input checked="" type="checkbox"/> a. Cost of all edges are positive</p> <p>b. Cost of all edges are negative</p> <p>c. Cost of edges can be positive or negative</p> <p>d. None of these</p>

Points: **2**

60. Multiple Choice: Q60.: Bellman ford algorithm gives correct ...

Question

Bellman ford algorithm gives correct result

Answer

a. Cost of all edges are positive

b. Cost of all edges are negative

c. Cost of edges can be positive or negative

d. None of these

Select: All None Select by Type: - Question Type -

Delete and Regrade

Points

Update and Regrade

Hide Question Details

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