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<b>CS502 Final Term Papers By Waqar (File 5)</b>	
<b>luestion No : 1 of 52</b> Suppose that a graph $G = (V, E)$ is implemented using adjacency lists. Whi	Marks: 1 (Budgeted Time 1 Min) at is the complexity of a breadth-first traversal of G?
nswer ( Please select your correct option )	VuAnswers.com
O( V P)           C	VU/115WC15.COIT
O(IV   IZD	
C ((V'P)E)	
c ode Lish	
O(IV   + IZ)	Made by: Waqar Siddhu
Juestion No : 2 of 52	Marks: 1 (Budgeted Time 1 Min)
Answer ( Please select your correct option ) O(kM)	VuAnswers.com
c 0(4)	
((k) p 99	Made by: Waqar Siddhu
Question No : 3 of 52	Marks: 1 (Budgeted Time 1 Min)
The Huffman algorithm finds a (n) solution.	
Inswer(Please select your correct option )	VuAnswers.com
C Non-optimal	
Exponential	
Polynomial	Made by: Waqar Siddhu
Ган Ма	no Visit VII A new or
For Mo	re Visit VU Answer

newer (Rease select your correct option )		VuAnswers.com
c <sup>80</sup>		
160		
320		
0		
c 100		Made by: Waqar Siddhu
uestion No : 5 of 52		Marks: 1 (Budgeted Time 1 Min)
Consider the string "abacdaacac" if the string is c	oded with ASCII codes using Huffman encoding scheme, the mess	
_	_	
nswer ( Please select your correct option )		VuAnswers.com
8 bits		
80 bits		
Less than 50 bits		
Less than 50 bits More than 50 bits		Mada hu: Jalaaar Siddhu
c More than 50 bits		Made by: Wagar Siddhu Narks: 1 (Burdaeted Time 1 Min)
More than 50 bits		Made by: Wagar Siddhu Marks: 1 (Budgeted Time 1 Min)
More than 50 bits		
More than 50 bits		
More than 50 bits uestion No : 6 of 52 tandom access machine or RAM is a/an		
More than 50 bits  Lestion No : 6 of 52  Landom access machine or RAM is a/an  Iswer ( Please select your correct option )  Machine build by Al-Khwarizmi		Marks: 1 (Budgeted Time 1 Min)
More than 50 bits More than 50 bits Lestion No : 6 of 52 Landom access machine or RAM is a/an Iswer ( Please select your correct option ) Machine build by Al-Khwarizmi		Marks: 1 (Budgeted Time 1 Min)
More than 50 bits More than 50 bits uestion No : 6 of 52 Random access machine or RAM is a/an swer (Please select your correct option ) Machine build by Al-Khwarizmi Mechanical machine		Marks: 1 (Budgeted Time 1 Min)
More than 50 bits More than 50 bits C More than 50 bits C Random access machine or RAM is a/an  swer (Please select your correct option ) Machine build by Al-Khwarizmi Mechanical machine Electronics machine		Marks: 1 (Budgeted Time 1 Min)
More than 50 bits  Westion No : 6 of 52  Random access machine or RAM is a/an  mswer (Please select your correct option )  Machine build by Al-Khwarizmi  Electronics machine  Electronics machine		Marks: 1 (Budgeted Time 1 Min)
More than 50 bits More than 50 bits C More than 50 bits C Random access machine or RAM is a/an  swer (Please select your correct option ) Machine build by Al-Khwarizmi Mechanical machine Electronics machine		Marks: 1 (Budgeted Time 1 Min)
More than 50 bits More than 50 bits uestion No : 6 of 52 tandom access machine or RAM is a/an mwer (Please select your correct option ) Machine build by Al-Khwarizmi Mechanical machine Electronics machine		Marks: 1 (Budgeted Time 1 Min)

estion No : 7 of 52	Marks: 1 (Budgeted Time 1 Min)
order to say anything meaningful about our algorithms, it will be important for us to settle on a	
wer ( Please select your correct option )	VuAnswers.com
C++ program	
Java program	
Pseudo program	
Mathematical model of computation	
p 10	Made by: Waqar Siddhu
estion No : 8 of 52	Marks: 1 (Budgeted Time 1 Min)
vide-and-conquer involves breaking the problem into a small number of	
swar ( Please select your correct option )	VuAnswers.com
Sub problems p 34	VU/115WCF5.COTT
Selection	
pivot	
Sieve	Made by: Waqar Siddhu
estion No : 9 of 52	Marks: 1 (Budgeted Time 1 Min)
ick sort procedure was invented by	
wer ( Please select your correct option )	VuAnswers.com
Hoare	
Sedgewick	
Melroy	
Coreman	
	Made by: Waqar Siddhu

estion No : 10 of 52	Marks: 1 (Budgeted Time 1 Min)
Bucket sort, if there are duplicates then each bin can be replaced by a	
wer ( Please select your correct option ) Linked list p 69	VuAnswers.com
Linked list p 09	
Heap	
Hash table	
Hash Table	
Stack	Made by: Waqar Siddhu
estion No : 11 of 52	Marks: 1 (Budgeted Time 1 Min)
in-place sorting algorithm is one that uses no arrays for storage.	marka, i Luageica inne i minj
wer ( Please select your correct option )	VuAnswers.com
two dimensional	
three dimensional	
n dimensional	
additional	Made bu: Jalagar Siddhu
$\bigcirc$	Made by: Waqar Siddhu Marks: 1 (Budgeted Time 1 Min)
estion No : 12 of 52	Marks: 1 (Budgeted Time 1 Min)
estion No : 12 of 52	Marks: 1 (Budgeted Time 1 Min)
estion No : 12 of 52	$\label{eq:marks: 1 (Budgeted Time 1 Min)} Marks: 1 (Budgeted Time 1 Min)$ particular, for $1 \le i \le p$ and $1 \le j \le r,$
estion No : 12 of 52 p × q matrix A can be multiplied with a q × r matrix B. The result will be a p × r matrix C. In	Marks: 1 (Budgeted Time 1 Min)
estion No : 12 of 52 p × q matrix A can be multiplied with a q × r matrix B. The result will be a p × r matrix C. In wer ( Please colorit your correct option )	$\label{eq:marks: 1 (Budgeted Time 1 Min)} Marks: 1 (Budgeted Time 1 Min)$ particular, for $1 \le i \le p$ and $1 \le j \le r,$
estion No : 12 of 52 $p \times q$ matrix A can be multiplied with a $q \times r$ matrix B. The result will be a $p \times r$ matrix C. In wer (Please color your correct option ) $\mathbb{C}[i, j] = \sum_{k=1}^{q} A[i,k]B[k, j]$ p 84	$\label{eq:marks: 1 (Budgeted Time 1 Min)} Marks: 1 (Budgeted Time 1 Min)$ particular, for $1 \le i \le p$ and $1 \le j \le r,$
estion No : 12 of 52 $p \times q$ matrix A can be multiplied with a $q \times r$ matrix B. The result will be a $p \times r$ matrix C. In wer (Please color your correct option) $\mathbb{C}[i, j] = \sum_{k=1}^{q} A[i,k]B[k, j]$ $p \ 84$ $\mathbb{C}[i, j] = \sum_{k=1}^{q} A[k,i]B[k, j]$	$\label{eq:marks: 1 (Budgeted Time 1 Min)} Marks: 1 (Budgeted Time 1 Min)$ particular, for $1 \le i \le p$ and $1 \le j \le r,$
estion No : 12 of 52 $p \times q$ matrix A can be multiplied with a $q \times r$ matrix B. The result will be a $p \times r$ matrix C. In wer (Please color your correct option ) $\mathbb{C}[i, j] = \sum_{k=1}^{q} A[i,k]B[k, j]$ p 84	Marks: 1 (Budgeted Time 1 Min) particular, for 1 ≤ i ≤ p and 1 ≤ j ≤ r, VuAnswers.com
estion No : 12 of 52 $p \times q \text{ matrix A can be multiplied with a } q \times r \text{ matrix B. The result will be a } p \times r \text{ matrix C. In}$ $extreme (Please colorityous correct option)$ $C[i, j] = \sum_{k=1}^{q} A[i,k]B[k, j]$ $P = \begin{cases} q \\ k=1 \end{cases}$	$\label{eq:marks: 1 (Budgeted Time 1 Min)} Marks: 1 (Budgeted Time 1 Min)$ particular, for $1 \le i \le p$ and $1 \le j \le r,$
estion No : 12 of 52 p × q matrix A can be multiplied with a q × r matrix B. The result will be a p × r matrix C. In wer (Please colorityour, correct option ) C [i, j] = $\sum_{k=1}^{q} A[i,k]B[k, j]$ p 84 C [i, j] = $\sum_{k=1}^{q} A[k,i]B[k, j]$ C [i, j] = $\sum_{k=1}^{q} A[k,i]B[k, j]$ None of these	Marks: 1 (Budgeted Time 1 Min) particular, for 1 ≤ i ≤ p and 1 ≤ j ≤ r, VuAnswers.com
estion No : 12 of 52 p × q matrix A can be multiplied with a q × r matrix B. The result will be a p × r matrix C. In wer (Please colorityour, correct option ) C [i, j] = $\sum_{k=1}^{q} A[i,k]B[k, j]$ p 84 C [i, j] = $\sum_{k=1}^{q} A[k,i]B[k, j]$ C [i, j] = $\sum_{k=1}^{q} A[k,i]B[k, j]$ None of these	Marks: 1 (Budgeted Time 1 Min) particular, for 1 ≤ i ≤ p and 1 ≤ j ≤ r, VuAnswers.com
estion No : 12 of 52 p × q matrix A can be multiplied with a q × r matrix B. The result will be a p × r matrix C. In wer (Please colorityour, correct option ) C [i, j] = $\sum_{k=1}^{q} A[i,k]B[k, j]$ p 84 C [i, j] = $\sum_{k=1}^{q} A[k,i]B[k, j]$ C [i, j] = $\sum_{k=1}^{q} A[k,i]B[k, j]$ None of these	Marks: 1 (Budgeted Time 1 Min) particular, for 1 ≤ i ≤ p and 1 ≤ j ≤ r, VuAnswers.com
estion No : 12 of 52 $p \times q \text{ matrix A can be multiplied with a } q \times r \text{ matrix B. The result will be a } p \times r \text{ matrix C. In}$ wer (Please colorityous correct option ) $C[i, j] = \sum_{k=1}^{q} A[i, k]B[k, j] \qquad p \text{ 84}$ $C[i, j] = \sum_{k=1}^{q} A[k, i]B[k, j]$ $C[i, j] = \sum_{k=1}^{q} A[k, i]B[k, j]$ None of these	Marks: 1 (Budgeted Time 1 Min) particular, for 1 ≤ i ≤ p and 1 ≤ j ≤ r, VuAnswers.com
estion No : 12 of 52 $p \times q \text{ matrix A can be multiplied with a } q \times r \text{ matrix B. The result will be a } p \times r \text{ matrix C. In}$ wer (Please colorityous correct option ) $C[i, j] = \sum_{k=1}^{q} A[i, k]B[k, j] \qquad p \text{ 84}$ $C[i, j] = \sum_{k=1}^{q} A[k, i]B[k, j]$ $C[i, j] = \sum_{k=1}^{q} A[k, i]B[k, j]$ None of these	Marks: 1 (Budgeted Time 1 Min) particular, for 1 ≤ i ≤ p and 1 ≤ j ≤ r, VuAnswers.com

ion No : 13 of 52 a given chain of matrices A1, A2, A3, A4, the product A1 A2 A3 A4 can be fully parenthesi	Marks: 1 (Budgeted Time 1 Min) zed in distinct way(s).
er ( Please select your correct option )	VuAnswers.com
Five	
Four	
Three	
<u> </u>	
Two	Made by: Waqar Siddhu
ion No : 14 of 52	Marks: 1 (Budgeted Time 1 Min)
st case running time of Quick Sort algorithm for an array with n elements is?	
er ( Please select your correct option )	VuAnswers.com
n <sup>2</sup> p 49	
**************************************	
2	
n <sup>8</sup>	Made by: Waqar Siddhu
ion No : 15 of 52	Marks: 1 (Budgeted Time 1 Min)
encode and compress text using ASCII standard each character is represented by	
er ( Please select your correct option )	VuAnswers.com
Fixed length codeword of 4 bits	
Variable length codeword up to 4 bits	
Variable length codeword up to 8 bits	
Fixed length codeword of 8 bits. p 99	Made by: Waqar Siddhu

estion No : 16 of 52	Marks: 1 (Budgeted Time 1 Min)
ne Huffman algorithm finds	
swer ( Please select your correct option )	VuAnswers.com
sometime optimal some time non optimal solution	
space wise optimal and time wise non optimal solution	
space wise opumai and time wise non opumai solunon	
a non-optimal solution	
$\frown$	
an optimal solution	Made by: Waqar Siddhu
estion No : 17 of 52	Marks: 1 (Budgeted Time 1 Min)
ae Huffman algorithm time complexity	
swer ( Please colocit your associt option )	VuAnswers.com
Can be improved up to O (n log n)	
Can be improved up to O(\land n log n)	
Is always O (n <sup>3</sup> )	
Is always O (n²)	Made by: Waqar Siddhu
estion No : 18 of 52	Marks: 1 (Budgeted Time 1 Min)
sing ASCII standard the string "abacdaac"	
swer ( Please select your correct option )	VuAnswers.com
If we use variable code for ASCII it will be 32 bits	
There was fined and a fact & COTT is will be 1550 bits	
If we use fixed code for ASCII it will be 256 bits	
If we use variable code for ASCII it will be will 64 bits	
If we use fixed code for ASCII it will be 64 bits	Made by: Waqar Siddhu
	. One no. Madar Sumur

	Marks: 1 (Budgeted Time 1 Min)
ng Huffman encoding technique the string "abc" will take	
wer (Please select your correct option ) 5 bits	VuAnswers.com
2	
6 bits	
24 bits	
12 bits	
9	Made by: Waqar Siddhu
iestion No : 20 of 52 Ising Huffman encoding technique the string "a@\$a" will be encoded withbits	Marks: 1 (Budgeted Time 1 Min)
swer ( Please select your correct option )	VuAnswers.com
5	
6	
8	
Huffman encoding fail at this string	
	Made by: Waqar Siddhu
iestion No : 21 of 52 I fractional knapsack we sort the	Marks: 1 (Budgeted Time 1 Min)
	VuAnswers.com
Value per unit weight in increasing order	
Value per unit weight in increasing order Weight per unit value in increasing order	
Value per unit weight in increasing order Weight per unit value in increasing order	
Value per unit weight in increasing order Weight per unit value in increasing order Value per unit weight in decreasing order	Made hu: Jalagar Siddhi
Value per unit weight in increasing order Weight per unit value in increasing order Value per unit weight in decreasing order Weight per unit value in decreasing order	Made by: Waqar Siddhu
Value per unit weight in increasing order Weight per unit value in increasing order Value per unit weight in decreasing order Weight per unit value in decreasing order	Made by: Waqar Siddhu
Value per unit weight in increasing order Weight per unit value in increasing order Value per unit weight in decreasing order Weight per unit value in decreasing order	Made by: Waqar Siddhu
Value per unit weight in increasing order Weight per unit value in increasing order Value per unit weight in decreasing order Weight per unit value in decreasing order	Made by: Waqar Siddhu
Value per unit weight in increasing order Weight per unit value in increasing order Value per unit weight in decreasing order Weight per unit value in decreasing order	Made by: Waqar Siddhu

tion No : 22 of 52	Marks: 1 (Budgeted Time 1 Min)
eneric graph traversal algorithm we	manas - poolyceut time ( minj
ver ( Please select your correct option )	VuAnswers.com
put vertices in the bag data structure	
put edges in the bag data structure	
put edges in stack data structure	
put vertices in the stack data structure	
	Made by: Waqar Siddhu
stion No : 23 of 52 ime stamp traversal we can calculate	Marks: 1 (Budgeted Time 1 Min)
wer ( <u>Please select your correct option</u> )	VuAnswers.com
whether the graph has Cycles	
total number of cycles on the bases of forward edges	
total number of cycles on the bases if back edges	
total no of paths of certain length	
	Made by: Waqar Siddhu
stion No : 24 of 52 en the graph has relatively few edges	Marks: 1 (Budgeted Time 1 Min)
G	
ver ( Please select your correct option )	VuAnswers.com
Prim's algorithm is better than Kruskal's	
Kruskal's algorithm is better than Prim's	
No one has priority over each other	
No one has priority over each other	Made by: Waqar Siddhu
No one has priority over each other	Made by: Waqar Siddhu
No one has priority over each other	Made by: Waqar Siddhu
No one has priority over each other	Made by: Waqar Siddhu
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xtion No : 25 of 52	Marks: 1 (Budgeted Time 1 Min)
skal's algorithm	
wer ( Please select your correct option )	VuAnswers.com
Choose the best tree edge	
Choose the vertex that gives the lightest weight	
<b>-</b>	
Follow the dynamic programming rules for choosing edges	
Choose the best non-cycle edge	Mada has Schoors Ciddha
stion No : 26 of 52	Made by: Wagar Siddhu Marks: 1 (Budgeted Time 1 Min)
Prim's algorithm we use	manes i loaderea i me i mint
wer ( Please select your correct option )	VuAnswers.com
Queue data structure	
Priority Queue data structure	
Stack data structure	
Both stack and Queue data structures	
	Made by: Waqar Siddhu
stion No : 27 of 52	Marks: 1 (Budgeted Time 1 Min)
ding any edge to a free tree	
wer ( Please select your correct option )	VuAnswers.com
wer ( Please select your correct option ) keeps it the free tree and increases the size of the tree	VuAnswers.com
keeps it the free tree and increases the size of the tree	VuAnswers.com
	VuAnswers.com
keeps it the free tree and increases the size of the tree	VuAnswers.com
keeps it the free tree and increases the size of the tree creates a unique cycle it is not allowed to add the edge in free tree	
keeps it the free tree and increases the size of the tree creates a unique cycle	VuAnswers.com Made by: Wagar Siddhu
keeps it the free tree and increases the size of the tree creates a unique cycle it is not allowed to add the edge in free tree	
keeps it the free tree and increases the size of the tree creates a unique cycle it is not allowed to add the edge in free tree	
keeps it the free tree and increases the size of the tree creates a unique cycle it is not allowed to add the edge in free tree	
keeps it the free tree and increases the size of the tree creates a unique cycle it is not allowed to add the edge in free tree	
keeps it the free tree and increases the size of the tree creates a unique cycle it is not allowed to add the edge in free tree	

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Marks: 1 (Budgeted Time 1 Min)
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de has & dearer Alde
ade by: Waqar Siddhu

stion No : 31 of 52 Iman Ford algorithm applies relaxation to every	Marks: 1 (Budgeted Time 1 Min)
wer ( Please select your correct option )	VuAnswers.com
edge of the graph and repeats exactly E-1 times	
edge but use the back edges for the completion	
edge of the graph and repeats exactly v-1 times	
vertex of the graph and repeats exactly E-1 times	
	Made by: Waqar Siddhu
stion No : 32 of 52	Marks: 1 (Budgeted Time 1 Min)
algorithms having the time complexity $\mathrm{O}(n^{10})$ and $\mathrm{O}(n^{100})$ fall	
wer ( Please select your correct option )	VuAnswers.com
Non-Deterministic Polynomial class	
Deterministic Polynomial class	
O(n <sup>10</sup> ) in P class and O(n <sup>100</sup> ) in NP class	
$\bigcirc(n^{10})$ in NP class and $\bigcirc(n^{100})$ in P class	Made by: Waqar Siddhu
stion No : 33 of 52	Marks: 1 (Budgeted Time 1 Min)
NP-problems "NP" represents	
wer (Please select your concert option ) Non-deterministic Polynomials	VuAnswers.com
AVVI SOUTHINGS I SUPERIOR	
Null-polynomials	
Negative Polynomials	
Non-polynomials	
	Made by: Waqar Siddhu

FUP WIDTE V	isit VU Answer
stion No : 34 of 52	Marks: 1 (Budgeted Time 1 Min)
ice used by Floyd-Warshall algorithm is	
wer ( Please select your correct option )	VuAnswers.com
$\Theta(n^4)$	
$\Theta(n^3)$	
0(14)	
Θ(n <sup>2</sup> ) p 164	
(e(2*)	
5 A	Made by: Waqar Siddhu
sistion No : 35 of 52	Marks: 1 (Budgeted Time 1 Min)
wer ( Please select your correct option )	VuAnswers.com
there is no relation between NP and NP-complete	
it can be solved in P time	
it must be in P	
it must also be in NP	Made by: Waqar Siddhu
stion No : 36 of 52	Marks: 1 (Budgeted Time 1 Min)
problem "S" is NP- complete it must be	
NP and NP-hard	VuAnswers.com
	VuAnswers.com
	VuAnswers.com
NP and NP-hard	VuAnswers.com
NP and NP-hard NP not necessarily NP-Hard NP-hard means it is NP complete as well	VuAnswers.com
NP and NP-hard NP not necessarily NP-Hard	
NP and NP-hard NP not necessarily NP-Hard NP-hard means it is NP complete as well	
NP and NP-hard NP not necessarily NP-Hard NP-hard means it is NP complete as well	
NP and NP-hard NP not necessarily NP-Hard NP-hard means it is NP complete as well	
NP and NP-hard NP not necessarily NP-Hard NP-hard means it is NP complete as well	
NP and NP-hard NP not necessarily NP-Hard NP-hard means it is NP complete as well	VuAnswers.com Made by: Magar Siddhu

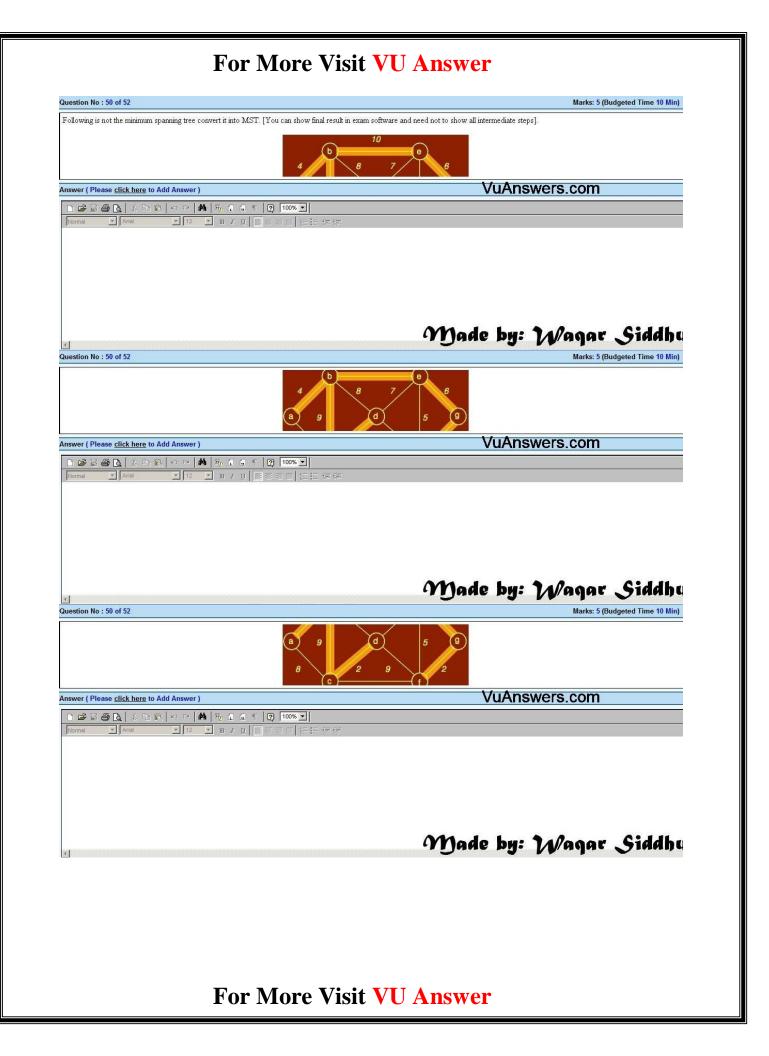
estion No : 37 of 52	Marks: 1 (Budgeted Time 1 Min)
the 3-coloring problem, for two vertices to be in the same group, they must be not	to each other.
	· · · ·
wer ( Please select your correct option ) Apart from	VuAnswers.com
Far from	
Nume	
Near to	
Adjacent to	
	Made by: Waqar Siddhu
sstion No : 38 of 52 gorithm's essential elements are	Marks: 1 (Budgeted Time 1 Min)
wer ( Please select your correct option )	VuAnswers.com
Step wise solution	
Stepwise solution and finite time	
Step wise solution finite inputs	
Stepwise approach in which time and memory does not matter.	
	Made by: Waqar Siddhu
stion No : 39 of 52	Marks: 1 (Budgeted Time 1 Min)
arch techniques of various algorithms look at	
word mease select your correct option )	VuAnswers.com
Many possible solutions	
Maximum 2 possible solutions	
Minimum 2 possible solutions	
7 	
Minimum 2 possible solutions Sorting solutions	Made by: Waqar Siddhu
Sorting solutions	Made by: Waqar Siddhu
Sorting solutions	Made by: Waqar Siddhu
Sorting solutions	Made by: Waqar Siddhu
Sorting solutions	Made by: Waqar Siddhu

stion No : 40 of 52	Marks: 1 (Budgeted Time 1 Min)
hich traversal technique is look like propagating wave-front outward	
iswer ( Please select your correct option )	VuAnswers.com
Generic Traversal	
Breadth First Traversal p 117	
Depth First Traversal	
Time Stamp Traversal	
	Made by: Waqar Siddhu
uestion No : 41 of 52 n strong components problem what complete refers to?	Marks: 2 (Budgeted Time 4 Min)
nswer(Please <u>click here</u> to Add Answer)	VuAnswers.com
▶ 2 日 3 0 × 3 10 × 2 × 3 10 × 1 12 × 3 × 10 00% ▼	
	Made by: Waqar Siddhu
eestion No : 42 of 52	Made by: Waqar Siddhu Marks: 2 (Budgeted Time 4 Min)
eestion No : 42 of 52	
eestion No : 42 of 52	
Juestion No : 42 of 52 What are quadratic series? Iswer ( Please <u>click here</u> to Add Answer )	
Insertion No : 42 of 52	Marks: 2 (Budgeted Time 4 Min)
Inswer ( Please <u>click here</u> to Add Answer )	Marks: 2 (Budgeted Time 4 Min)
Instant No : 42 of 52	Marks: 2 (Budgeted Time 4 Min)
Inswer ( Please <u>click here</u> to Add Answer )	Marks: 2 (Budgeted Time 4 Min)
Inswer ( Please <u>click here</u> to Add Answer )	Marks: 2 (Budgeted Time 4 Min)
Instant No : 42 of 52	Marks: 2 (Budgeted Time 4 Min)
Instant No : 42 of 52	Marks: 2 (Budgeted Time 4 Min)
Instance of 52	Marks: 2 (Budgeted Time 4 Min)
Instance of 52	Marks: 2 (Budgeted Time 4 Min)
swer ( Please <u>click here</u> to Add Answer )	Marks: 2 (Budgeted Time 4 Min)

lestion No : 43 of 52	Marks: 2 (Budgeted Time 4 Min
That is overall time for Kruskal's algorithm if the graph is sparse?	mariar 2 (2008) state 1 mil
nswer ( Please <u>click here</u> to Add Answer )	VuAnswers.com
▶ 22 日 4 (A tail 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
-	Made by: Waqar Siddh
estion No : 44 of 52	Marks: 2 (Budgeted Time 4 Min
When a problem is called a decision problem?	
	VuAnswers.com
nswer (Please <u>click here</u> to Add Answer )	vuAnswers.com
□ 2 目 2 0         ×         ×         №         𝔅         <	
	Made by: Waqar Siddh
uestion No : 45 of 52	Made by: Wagar Siddh Marks: 3 (Budgeted Time 6 Min
uestion No : 45 of 52	
uestion No : 45 of 52	Marks: 3 (Budgeted Time 6 Min
estion No : 45 of 52 Formally describe Minimum Spanning Trees Problem. nswer ( Please <u>click here</u> to Add Answer )	
eustion No : 45 of 52 Formally describe Minimum Spanning Trees Problem.	Marks: 3 (Budgeted Time 6 Min
estion No : 45 of 52 Formally describe Minimum Spanning Trees Problem. nswer ( Please <u>click here</u> to Add Answer )	Marks: 3 (Budgeted Time 6 Min
estion No : 45 of 52 Formally describe Minimum Spanning Trees Problem.  nswer ( Please click here to Add Answer )	Marks: 3 (Budgeted Time 6 Min
eustion No : 45 of 52 Formally describe Minimum Spanning Trees Problem.	Marks: 3 (Budgeted Time 6 Min
eustion No : 45 of 52 Formally describe Minimum Spanning Trees Problem.	Marks: 3 (Budgeted Time 6 Min
eustion No : 45 of 52 Formally describe Minimum Spanning Trees Problem.	Marks: 3 (Budgeted Time 6 Min
eustion No : 45 of 52 Formally describe Minimum Spanning Trees Problem.	Marks: 3 (Budgeted Time 6 Min
estion No : 45 of 52 Formally describe Minimum Spanning Trees Problem.  nswer ( Please click here to Add Answer )	Marks: 3 (Budgeted Time 6 Min
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uestion No : 46 of 52	Marks: 3 (Budgeted Time 6 Min)
Frue or false: A sequence of values in a column of the dynamic programming table for an in	stance of the knapsack problem is always non-decreasing? Give a brief description.
nswer ( Please <u>click here</u> to Add Answer )	VuAnswers.com
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uestion No : 47 of 52	Marks: 3 (Budgeted Time 6 Min)
escribe the relation between mutually reachable, equivalence relation, and component digraph	
nswer ( Please <u>click here</u> to Add Answer )	VuAnswers.com
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Jestion No : 48 of 52	Marks: 3 (Budgeted Time 6 Min) e intermediate cities that can be used and you know the cost of laying track between any pair of the
J Juestion No : 48 of 52 You are given the task of laying down new railway line between Peshawar and Karachi. There are <i>i</i> titles. Your goal is to spend the least total amount of track to construct the railway line. How would ddresses the above problem.	Marks: 3 (Budgeted Time 6 Min) e intermediate cities that can be used and you know the cost of laying track between any pair of the
Inswer (Please click here to Add Answer)	Marks: 3 (Budgeted Time 6 Min) a intermediate cities that can be used and you know the cost of laying track between any pair of the you determine the least amount of track and the cities to go through? Name the best algorithm white
uestion No : 48 of 52 Cou are given the task of laying down new railway line between Peshawar and Karachi. There are a times. Your goal is to spend the least total amount of track to construct the railway line. How would ddresses the above problem. nswer (Please click here to Add Answer) See a A See Click here to Add Answer (2) 100%	Marks: 3 (Budgeted Time 6 Min) a intermediate cities that can be used and you know the cost of laying track between any pair of the you determine the least amount of track and the cities to go through? Name the best algorithm white

uestion No : 49 of 52	Marks: 5 (Budgeted Time 10 Mir
	pair of cities, you will end up with track connecting them. Note that two routes may share the same is to use the minimum amount of track. How would you achieve the goal now? (Note : consider the
nswer ( Please <u>click here</u> to Add Answer )	VuAnswers.com
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<u>دا</u>	Made by: Waqar Siddh
luestion No : 50 of 52 Following is not the minimum spanning tree convert it into MST. [You can show final result in exam	Marks: 5 (Budgeted Time 10 Min
conowing is not the minimum spanning tree convert is into 1451. [1 of car show man result in exam	10
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uestion No : 51 of 52	Marks: 5 (Budgeted Time 10 Min)
<pre>uestion No : 51 of 52 Consider the following recursive search function which returns the index of the array element containing key, if such an element exists. For work. Int search( int* array, int left, int right, int key)(</pre>	Marks: 5 (Budgeted Time 10 Min)
<pre>inestion No: 51 of 52 insider the following recursive search function which returns the index of the array element containing key, if such an element exists. From the search ( int * array, int left, int right, int key) {     int mid = (left + right)/2;     f( left == right )         return left;</pre>	Marks: 5 (Budgeted Time 10 Min) ind out what is the complexity of search and show yo
<pre>uestion No : 51 of 52 Consider the following recursive search function which returns the index of the array element containing key, if such an element exists. Fr rork Int search( int* array, int left, int right, int key)( int mid = (left + right)/2; If( left == right ) return left;</pre>	

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uestion No : 51 of 52	Marks: 5 (Budgeted Time 10 Min
return left;	
<b>lse if</b> ( array[mid] <= key )	
<pre>return search( array, mid+1, right, key );</pre>	
lse	
<pre>return search( array, left, mid, key );</pre>	
swer ( Please <u>click here</u> to Add Answer )	VuAnswers.com
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Normal 文 Arial 文 12 文 B / U 目言言言語推荐样	
estion No : 52 of 52 Frite pseudo code for the algorithm, if we implement the bag of knapsack by using a stack.	Made by: Waqar Siddh Marks: 5 (Budgeted Time 10 Mir
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