

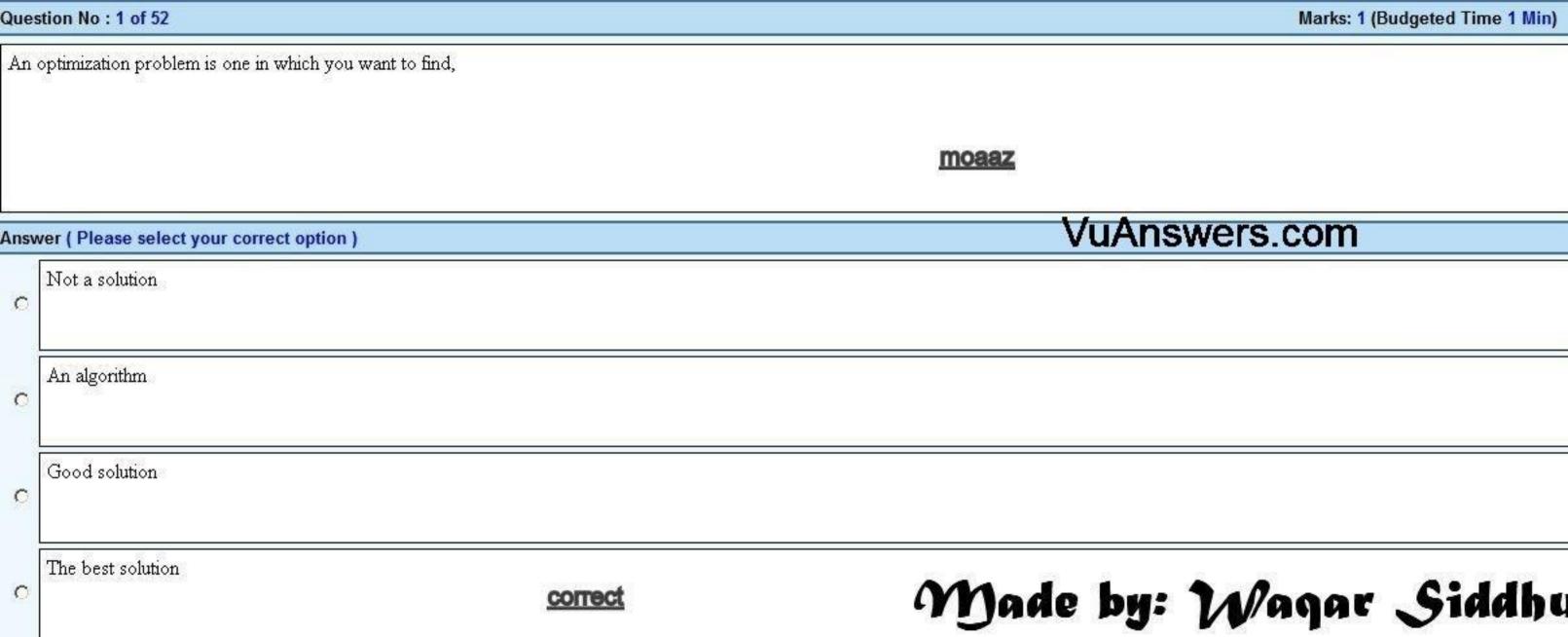
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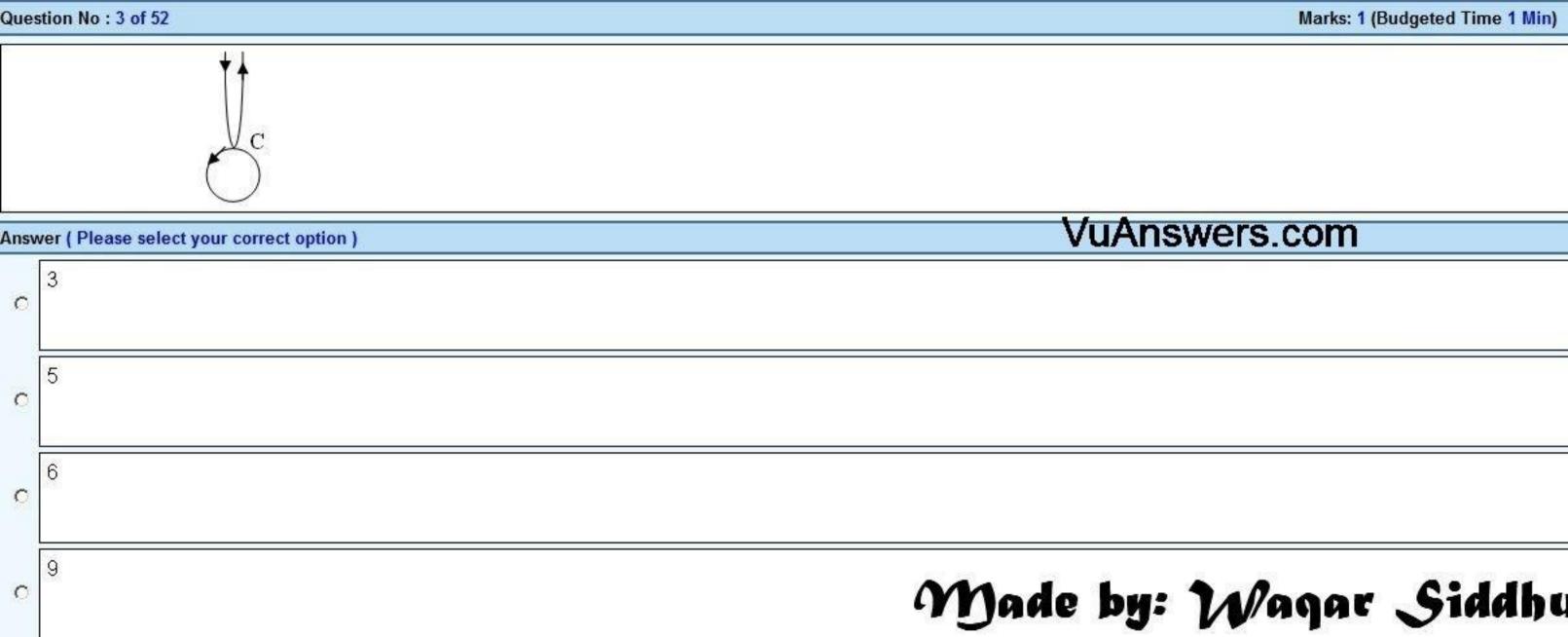
**VU Answer** 

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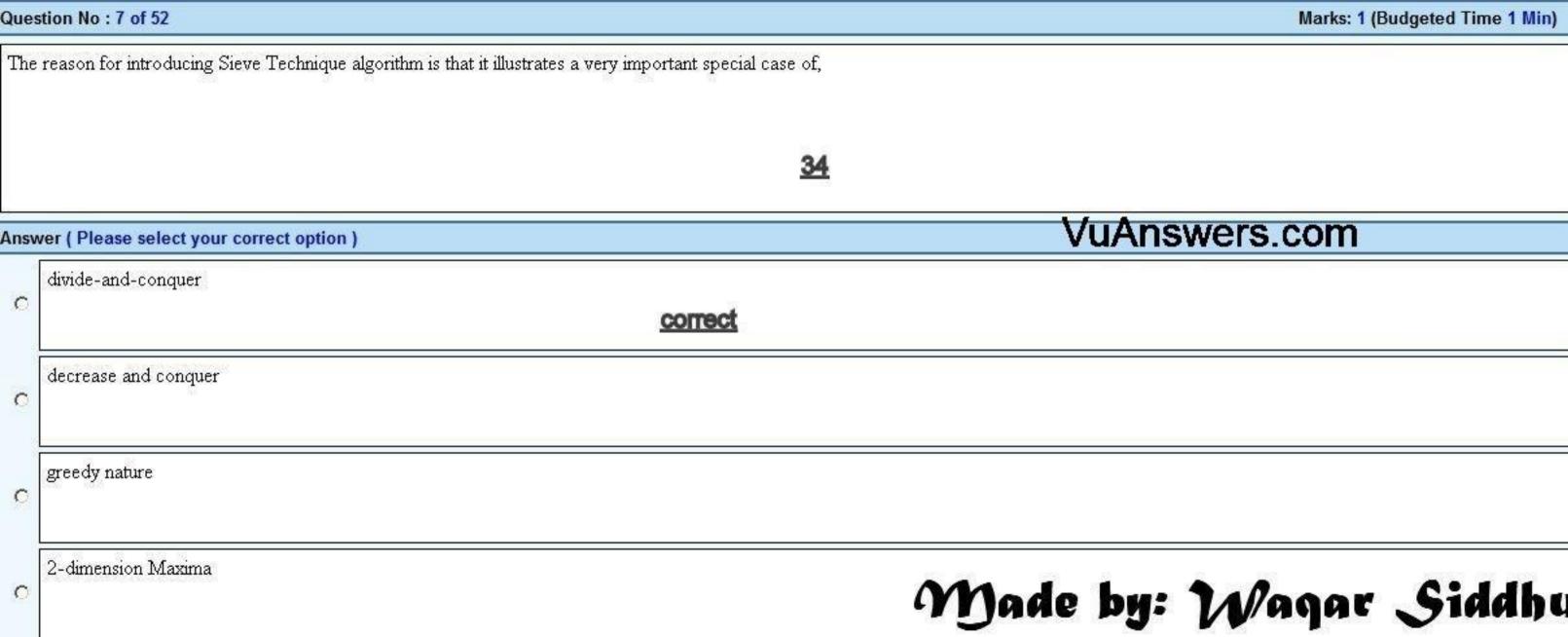


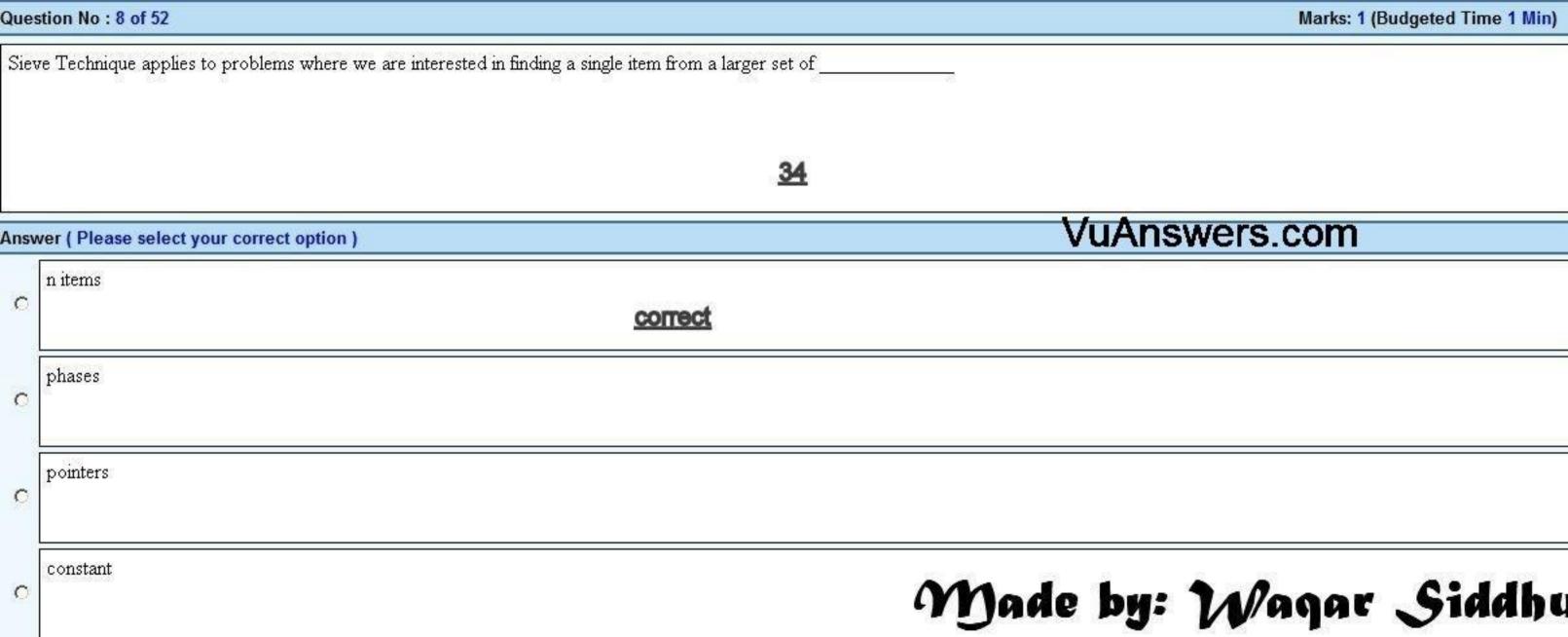


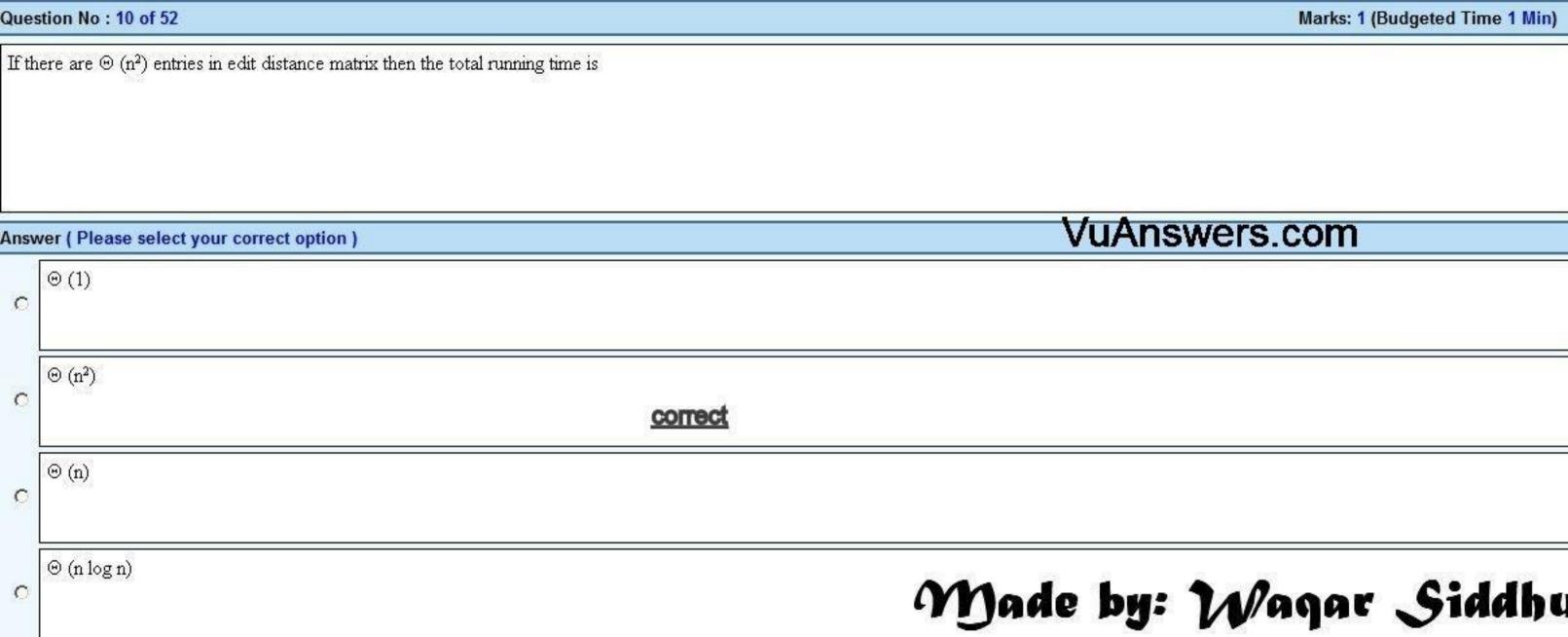


Que	stion No : 4 of 52	Marks: 1 (Budgeted Time 1 Min)
No	n-optimal or greedy algorithm for money change takes	
		V/IIA newore com
Ansı	wer ( Please select your correct option )	VuAnswers.com
c	O(k) correct	
c	O(2 <sup>k</sup> )	
c	O(N)	
C	O(kN)	Made by: Waqar Siddhu

Que	stion No : 5 of 52			Marks: 1 (Budgeted Time 1 Min)
The	Huffman algorithm finds a (n)	solution.		
			<u>102</u>	
Ansv	ver ( Please select your correct option )		VuAns	wers.com
0	Optimal	correct		
0	Non-optimal			
С	Exponential			
0	Polynomial		Made by:	Waqar Siddhu



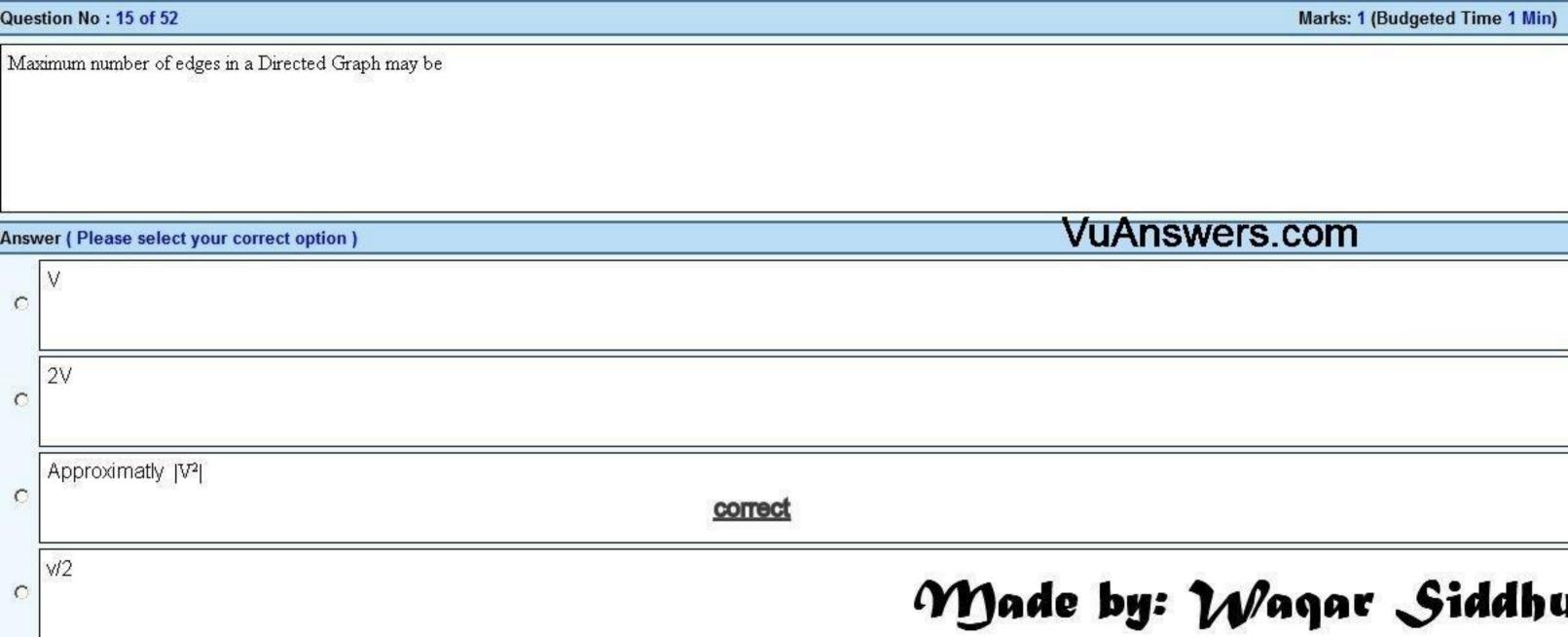




Que	stion No : 11 of 52	Marks: 1 (Budgeted Time 1 Min)
Wh	en a recursive algorithm revisits the same problem over and over again, we say that the optimization problem h	assub-problems.
Ansv	ver ( Please select your correct option )	VuAnswers.com
0	Overlapping <u>correct</u>	
O	Over costing	
0	Optimized	
0	None of these	Made by: Waqar Siddhu

Que	estion No : 12 of 52	Marks: 1 (Budgeted Time 1 Min)
A p	p × q matrix A can be multiplied with a q × r matrix B. The result will be a p × r matrix C. There are (p • r) total entries	s in C and each takes to compute.
Ansv	wer ( Please select your correct option )	VuAnswers.com
0	(p) Correct	
0	O (1)	
c	○ (n²)	
c	○ (n³)	Made by: Waqar Siddhu

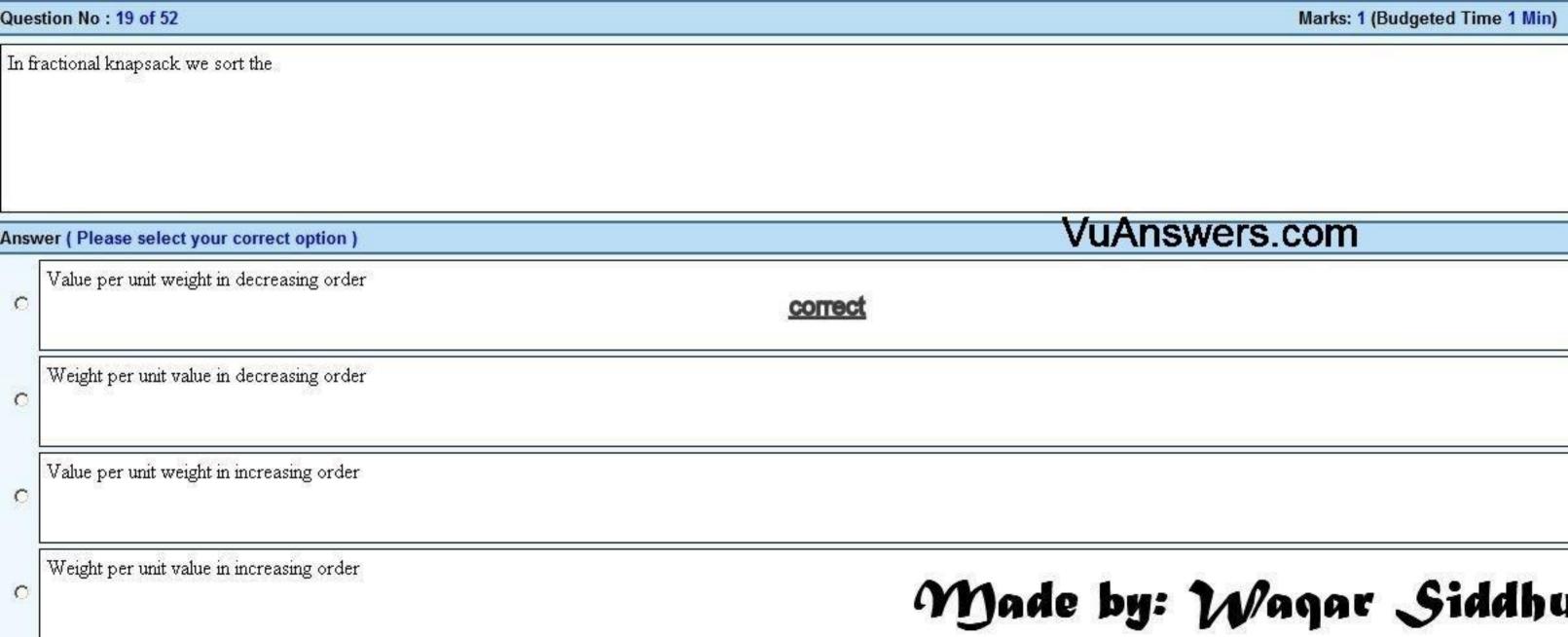
Que	stion No : 13 of 52		Mark	s: 1 (Budgeted Time 1 Min)
Ma	trix — Chain — Order is	than the exponential time method of enumerating all possibl	e parenthesizations and checking each one.	
Ansv	ver ( Please select your correc	t option )	VuAnswers.cor	n
0	Much more efficient			
0	Only fractional efficient			
С	Worst			
0	Too slow		Made by: Waqa	r Siddhe





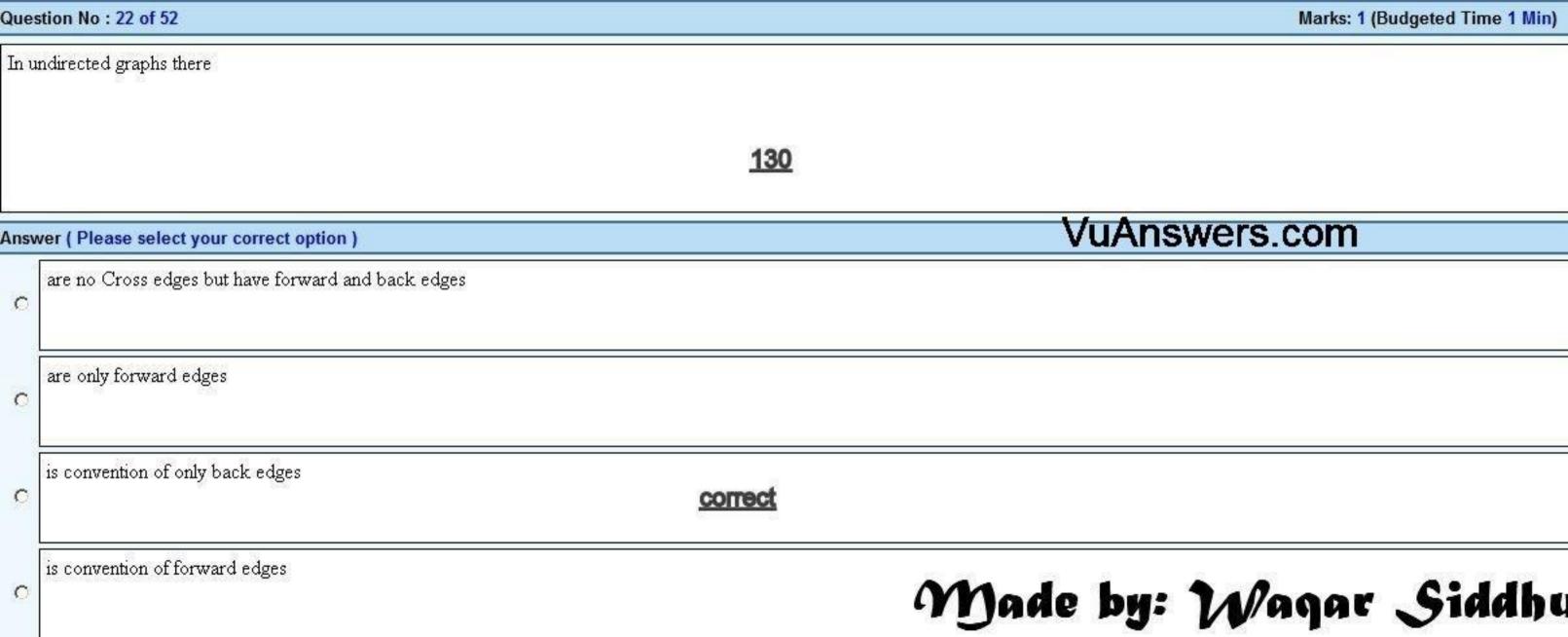
Que	stion No : 17 of 52		Marks: 1 (Budgeted Time 1 Min)
Usi	ng ASCII standard the string "ab-#\$c" will be encoded bytes		
Ansv	wer ( Please select your correct option )		VuAnswers.com
0	16		
c	7		
С	6		
С	This string cannot be stored using ASCII standard	correct	Made by: Waqar Siddhu

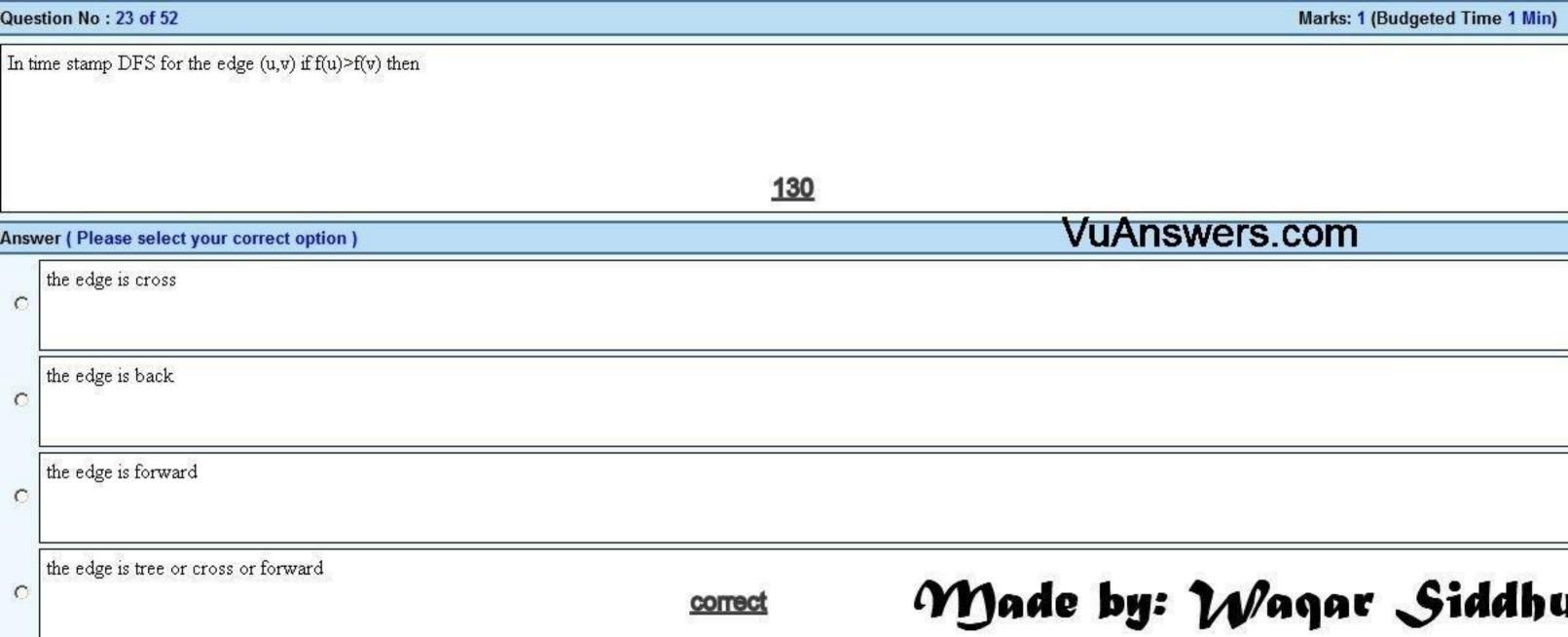
Que	stion No : 18 of 52	Marks: 1 (Budgeted Time 1 Min)	
Usi	ng Huffman encoding technique the string "a@\$a" will be encoded withbits		
Ansv	wer ( Please select your correct option )	VuAnswers.com	
0	5		
0	6		
c	8		
0	Huffman encoding fail at this string correct	Made by: Waqar Siddhu	

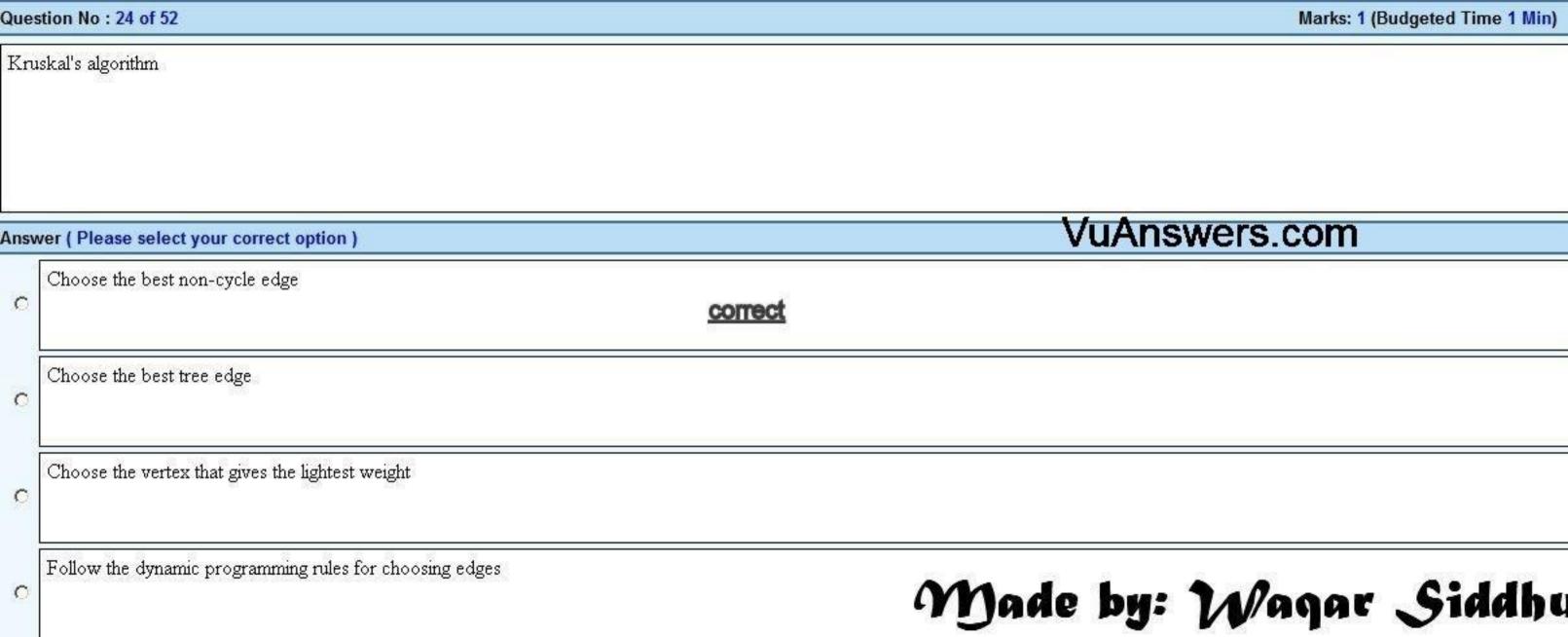


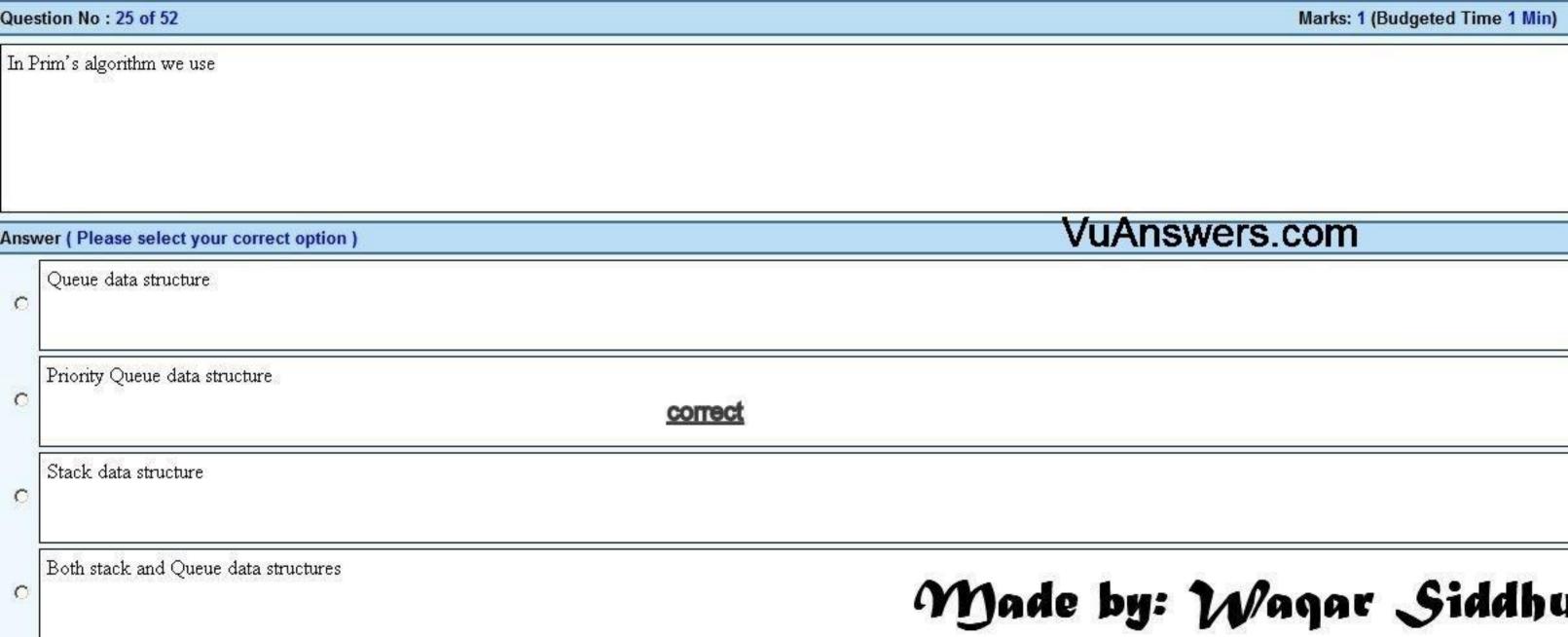
Que	stion No : 20 of 52	Marks: 1 (F	Budgeted Time 1 Min)
The	greedy part of the Huffman encoding algorithm is to first find two nodes with	frequency.	
Ansv	ver ( Please select your correct option )	VuAnswers.com	
0	Larger		
0	Smallest <u>correct</u>		
С	Balance		
o	Character	Made by: Waqar	Siddhu

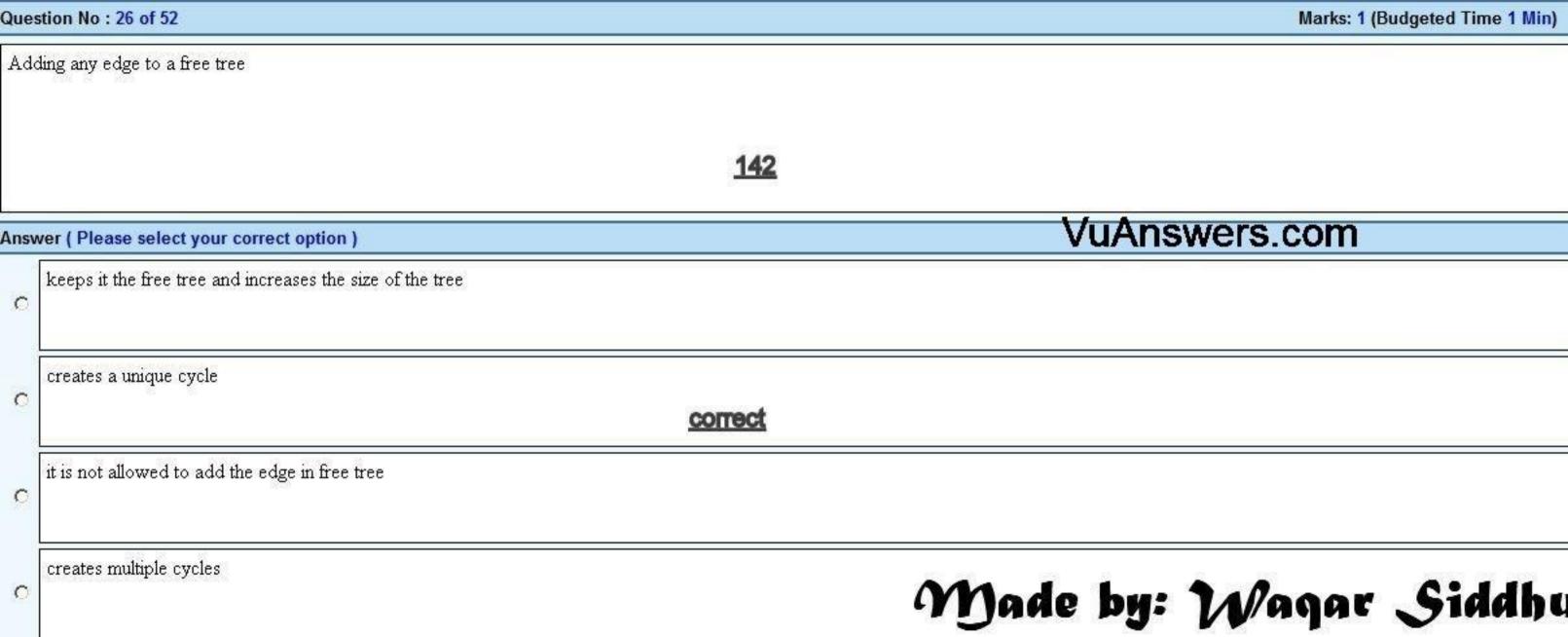


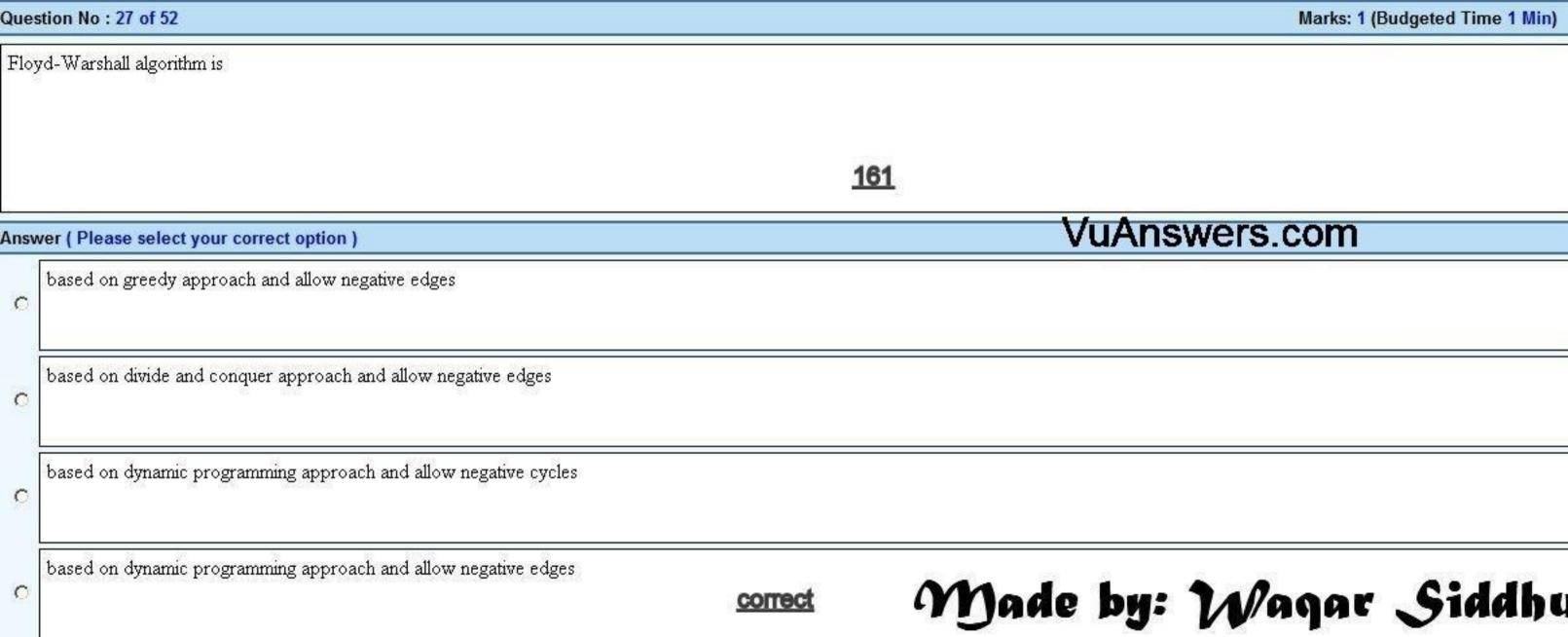


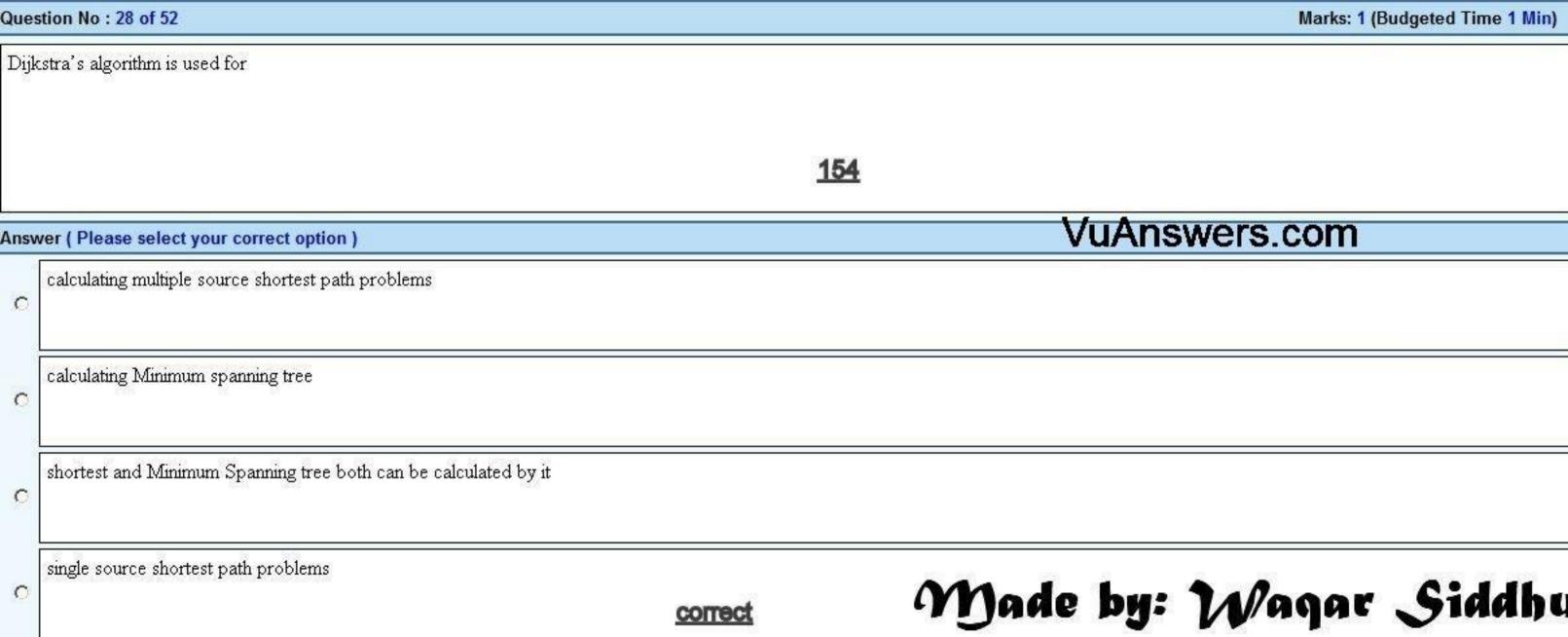


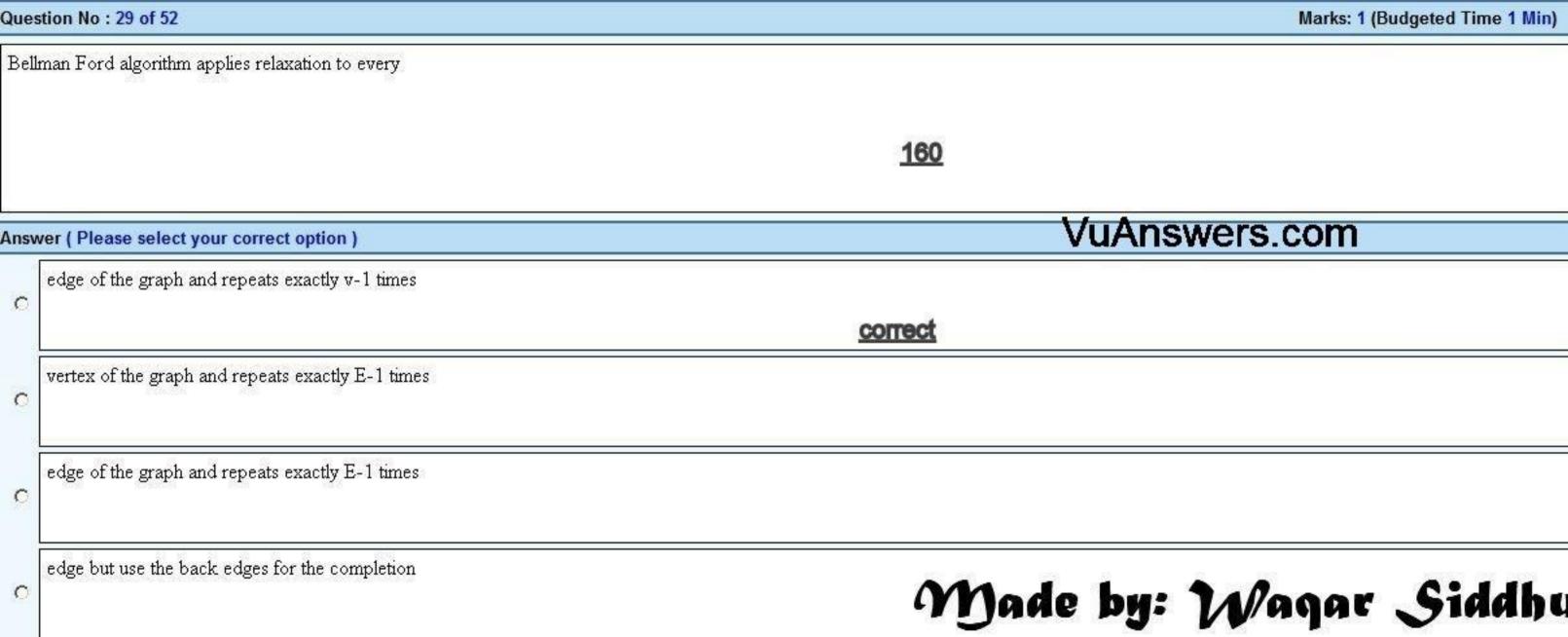


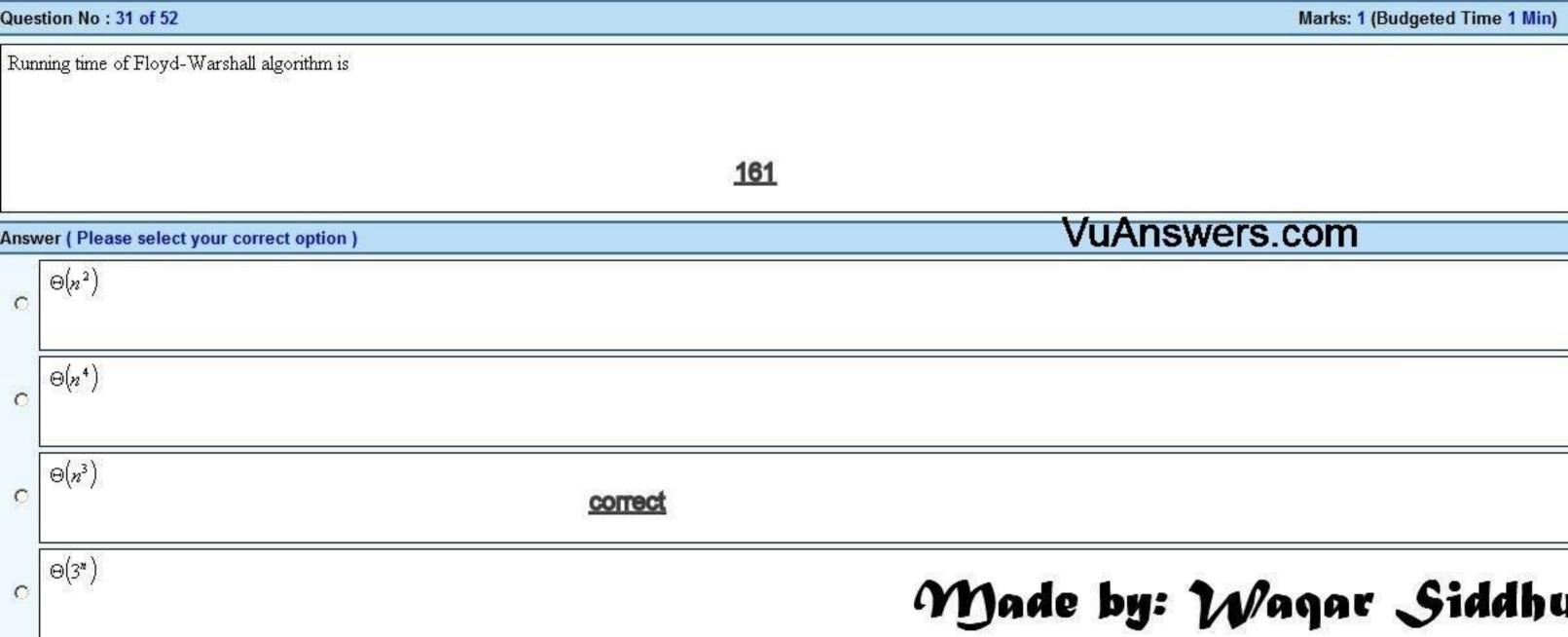


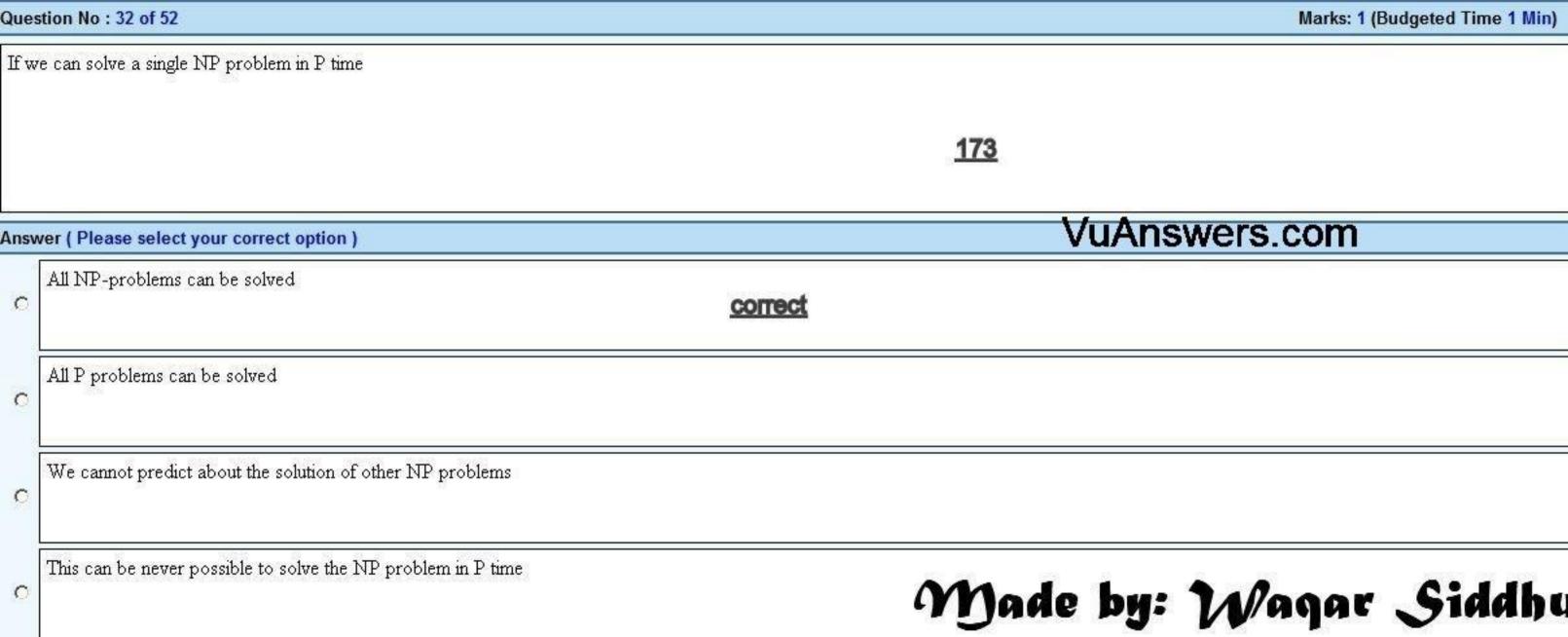


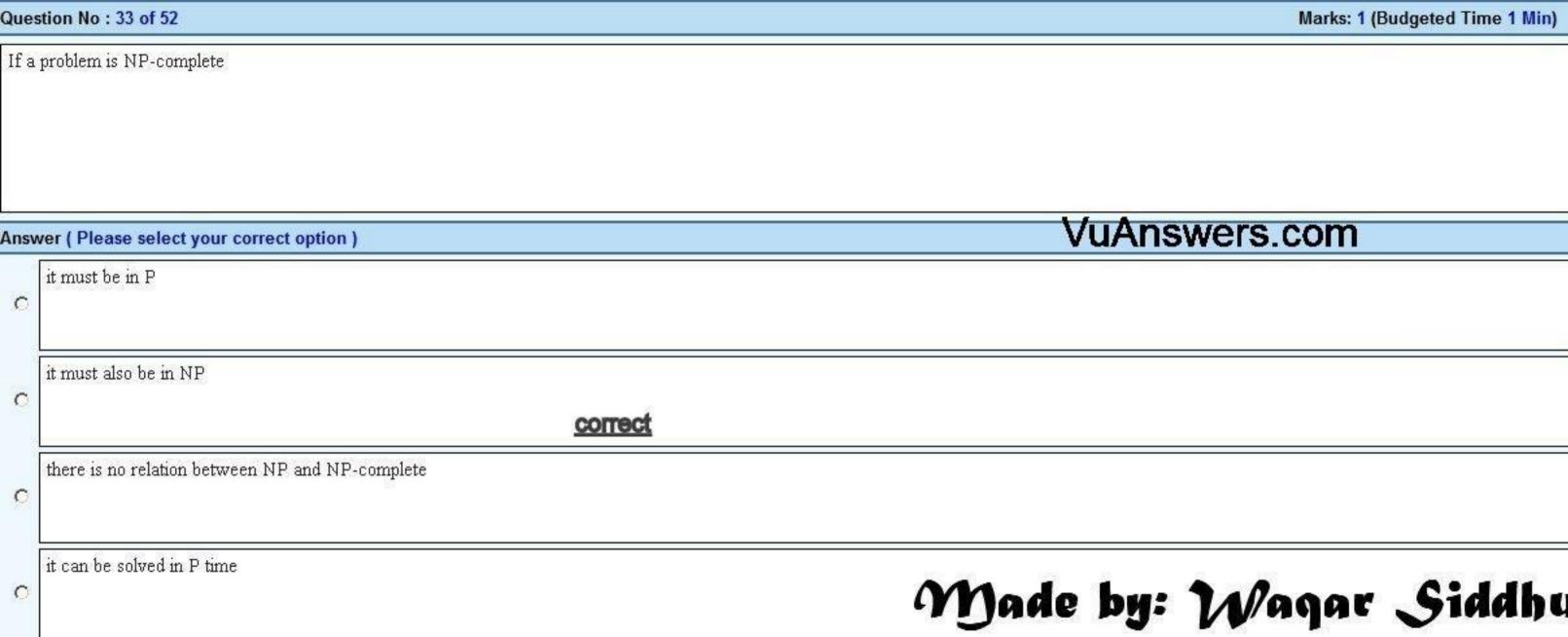




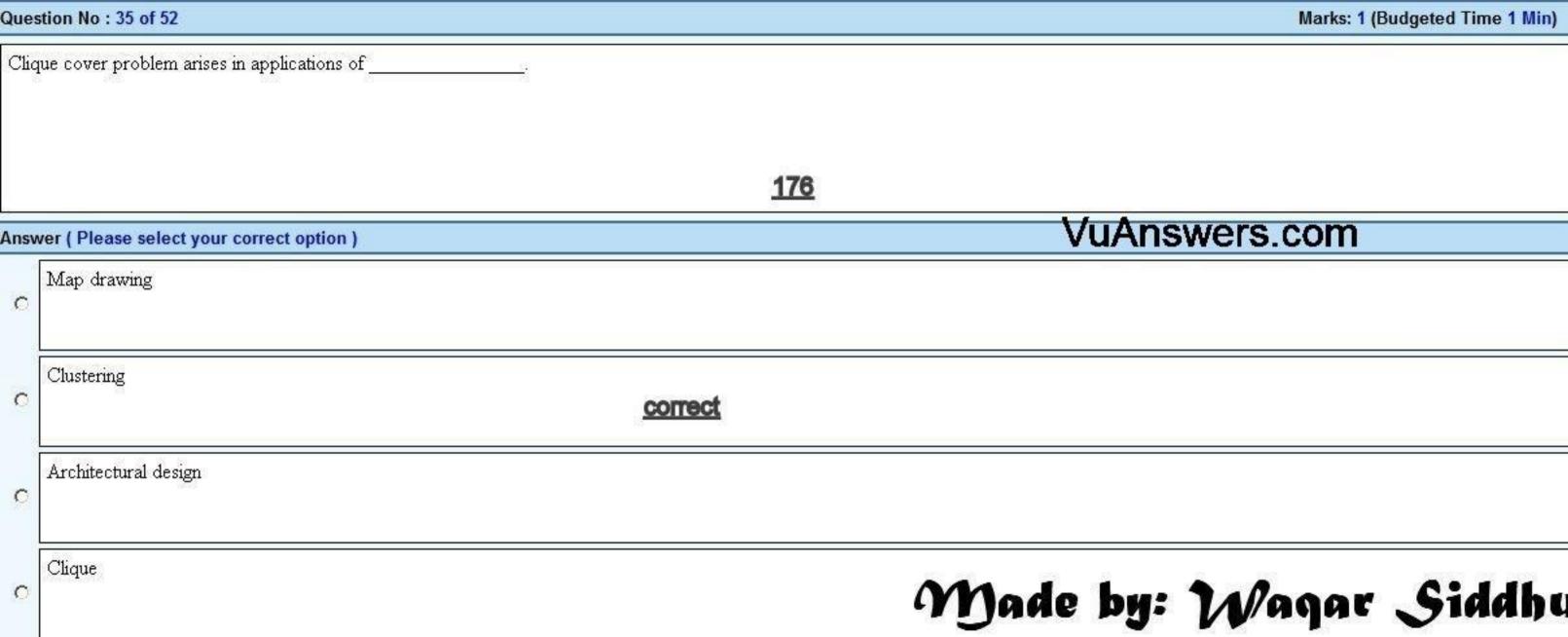




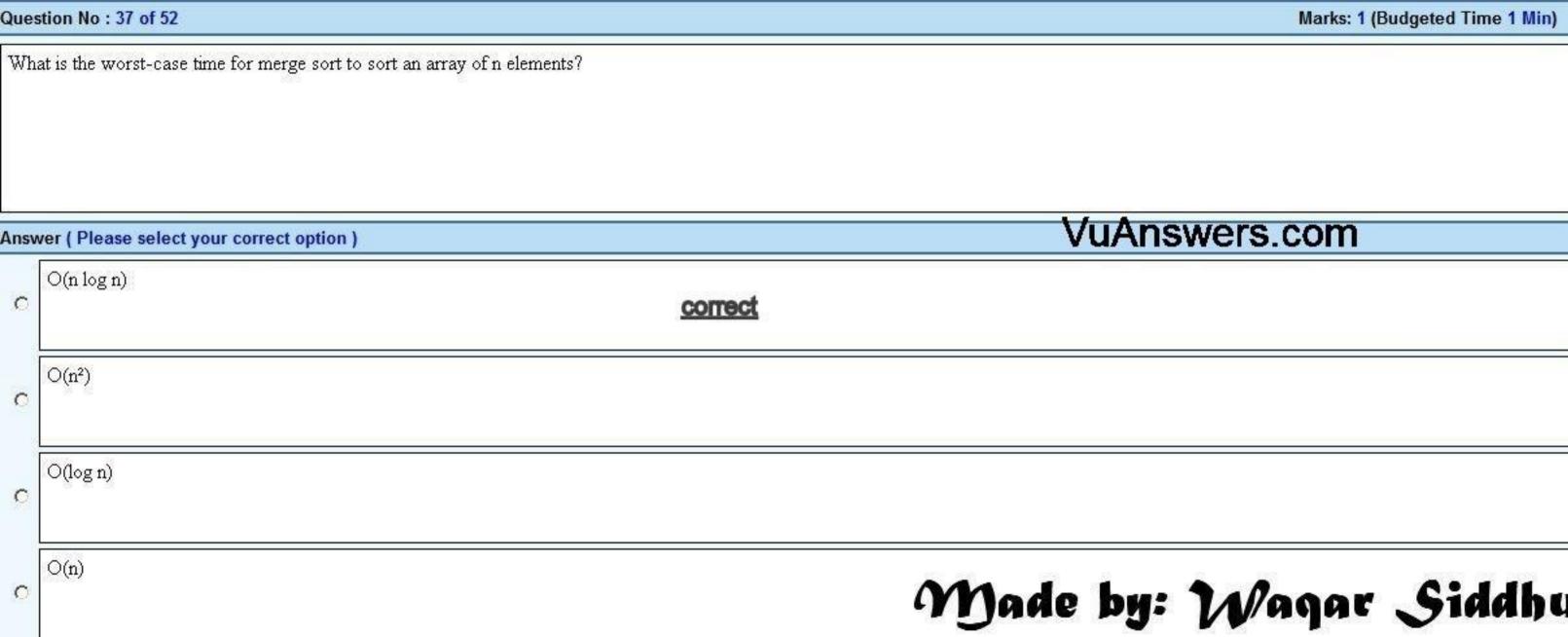


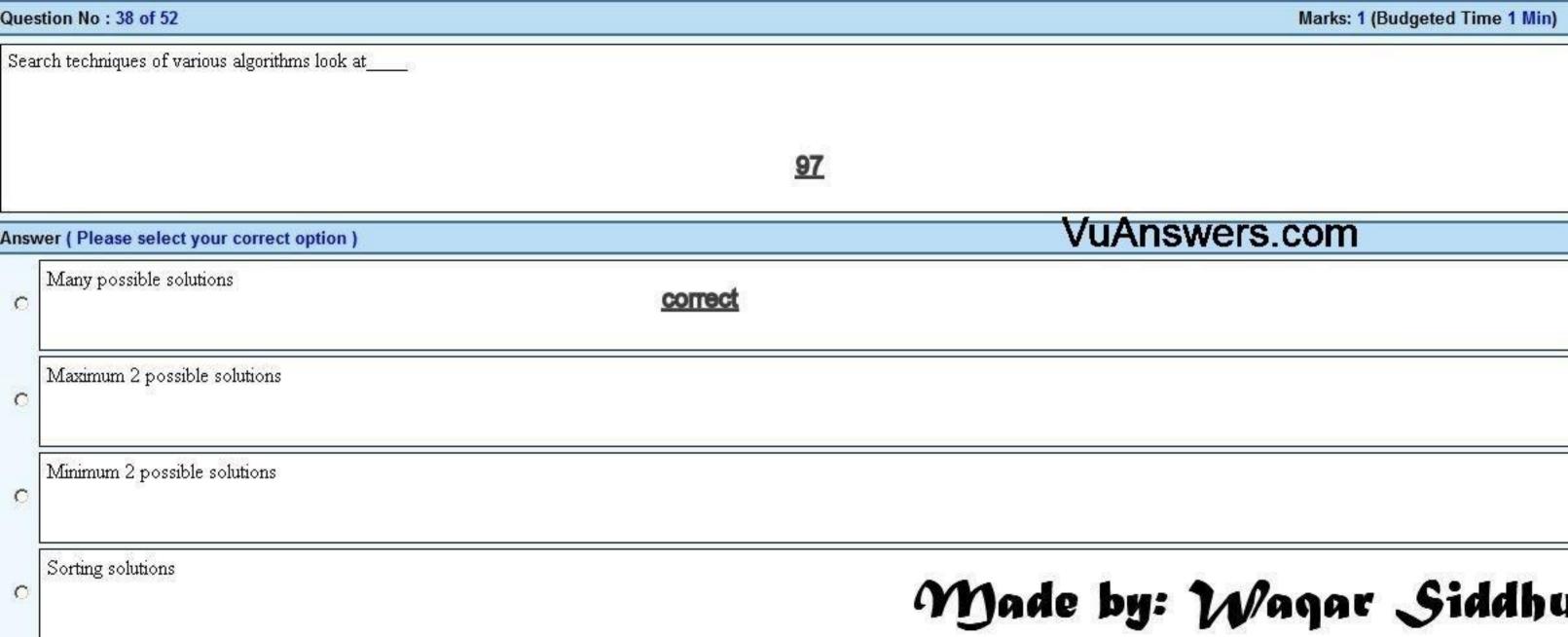


Que	stion No : 34 of 52	Marks: 1 (Budgeted Time 1 Min)
3-c	color problem is known as	
		<u>173</u>
Ansv	wer ( Please select your correct option )	VuAnswers.com
0	P	
c	NPC CO	rect
С	Co-NP	
c	P and NP	Made by: Waqar Siddhu

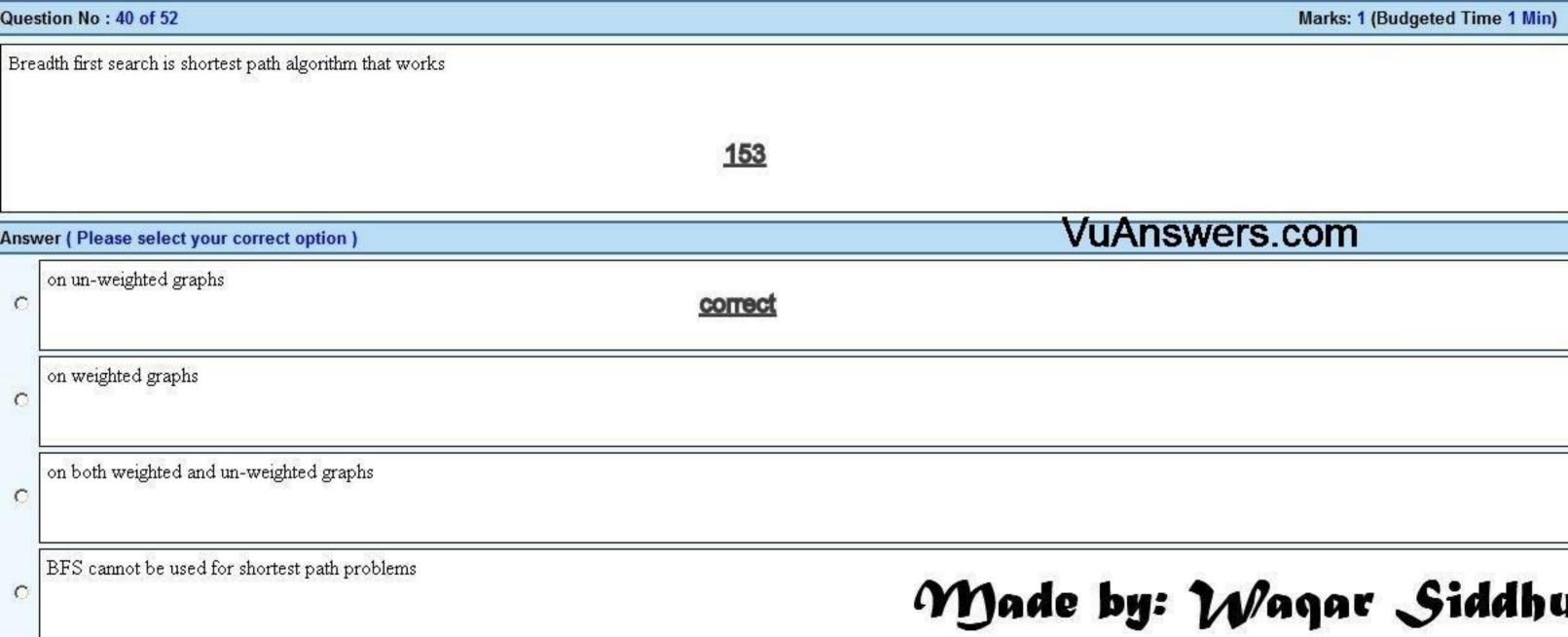


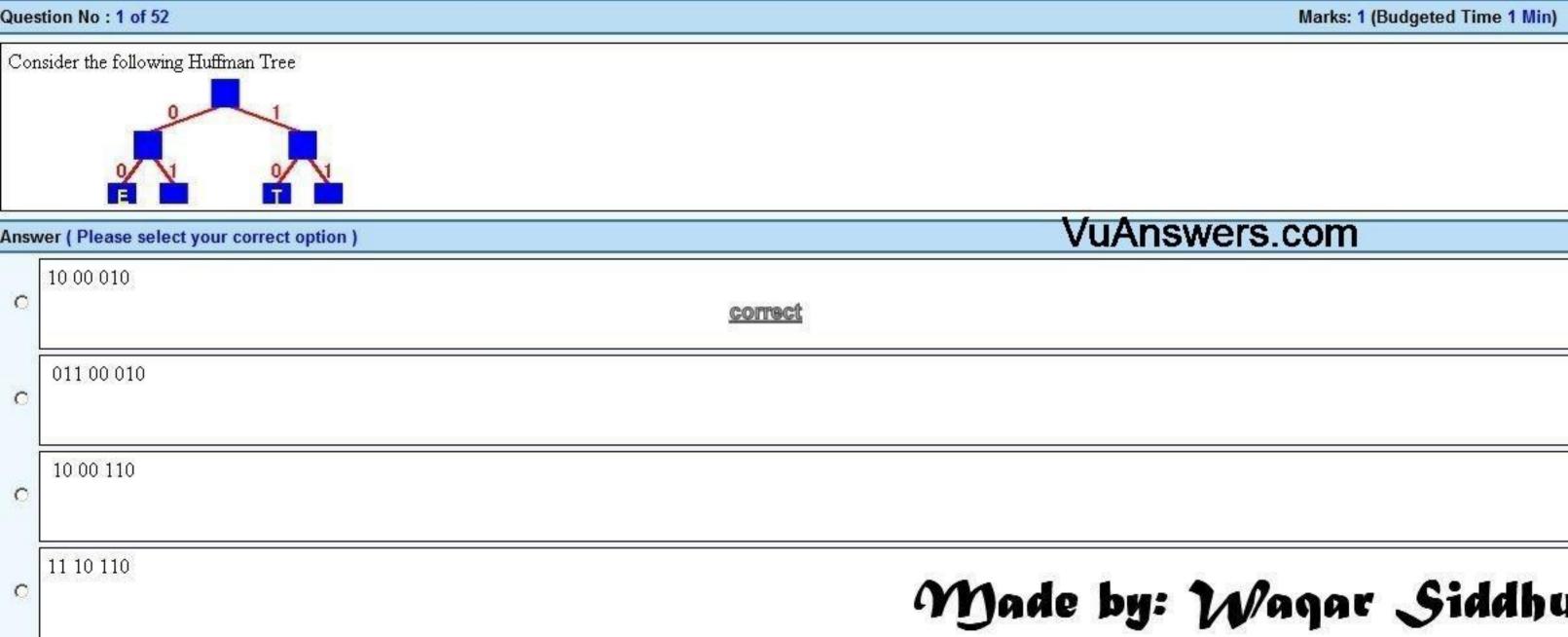
Ques	stion No : 36 of 52	Marks: 1 (Budgeted Time 1 Min)
In th	ne 3-coloring problem, for two vertices to be in the same group, they must be not	to each other.
		<u>176</u>
Ansv	ver ( Please select your correct option )	VuAnswers.com
c	Apart from	
c	Far from	
О	Near to	
c	Adjacent to correct	Made by: Waqar Siddhu

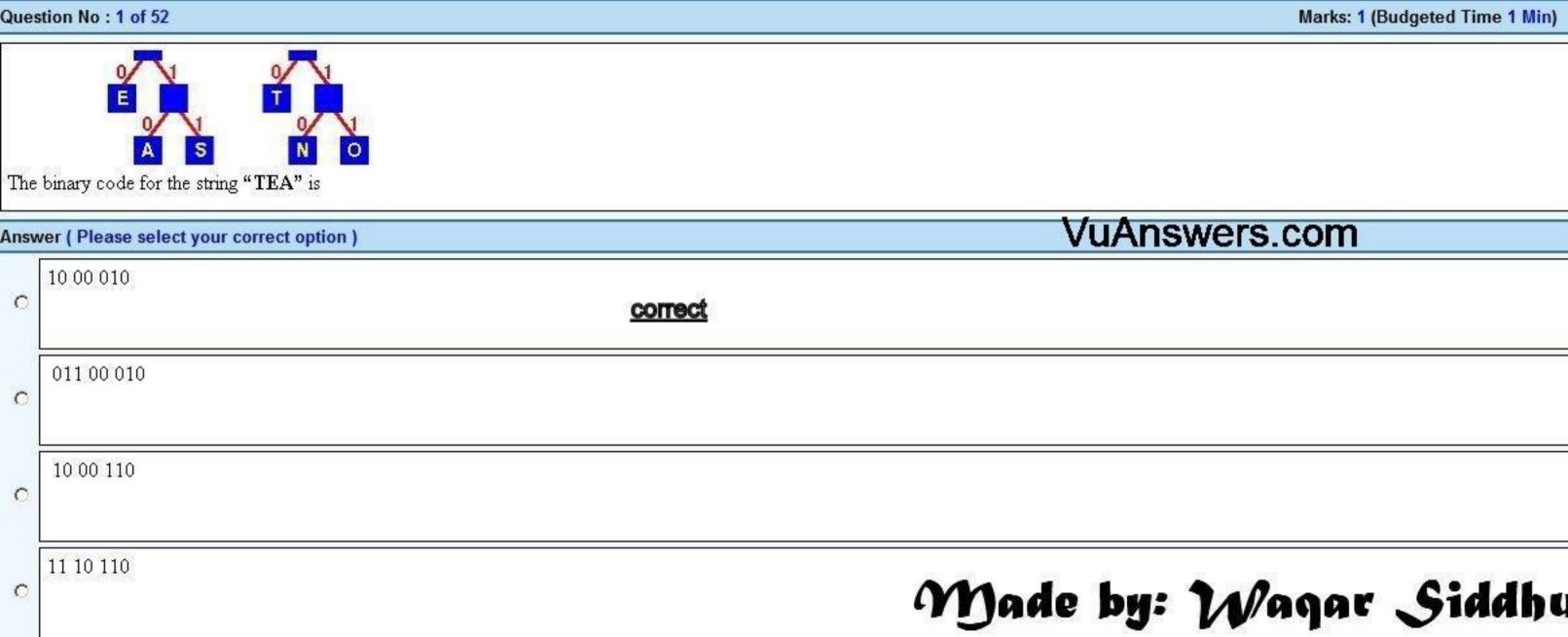


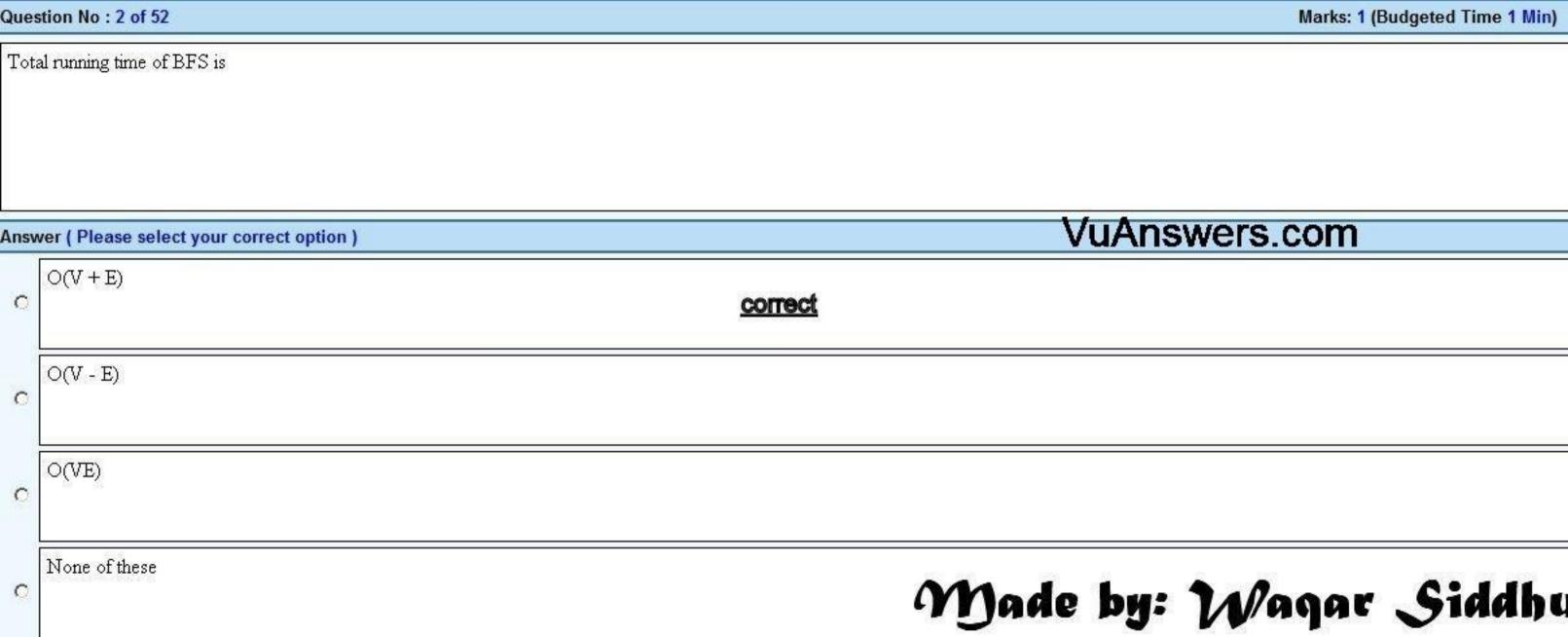


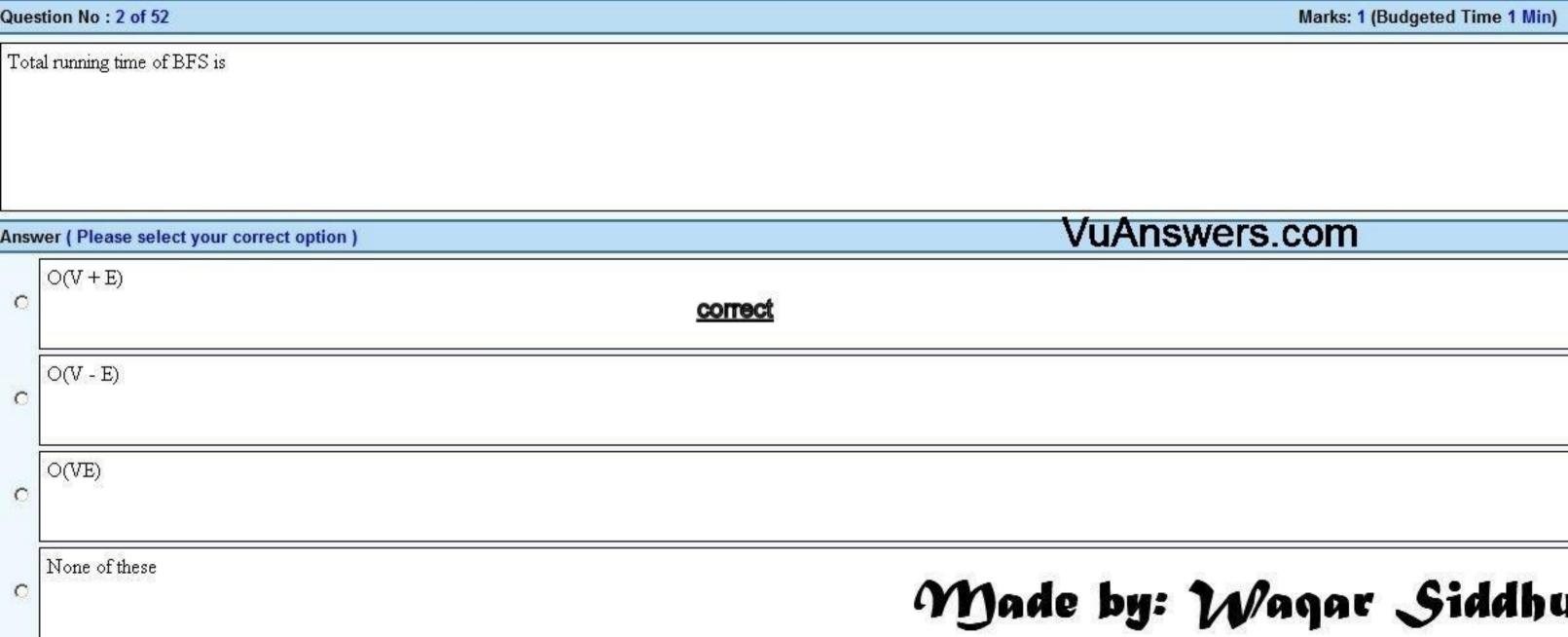
Que	uestion No : 39 of 52	Marks: 1 (Budgeted Time 1 Min)
The	The Huffman encoding algorithm is a	
		99
Ansv	nswer ( Please select your correct option )	VuAnswers.com
0	Dynamic and greedy algorithm	
C	Divide and conquer and greedy algorithm	
O	Geedy algorithm.  correct	
0	Dynamic programming algorithm	Made by: Waqar Siddhu



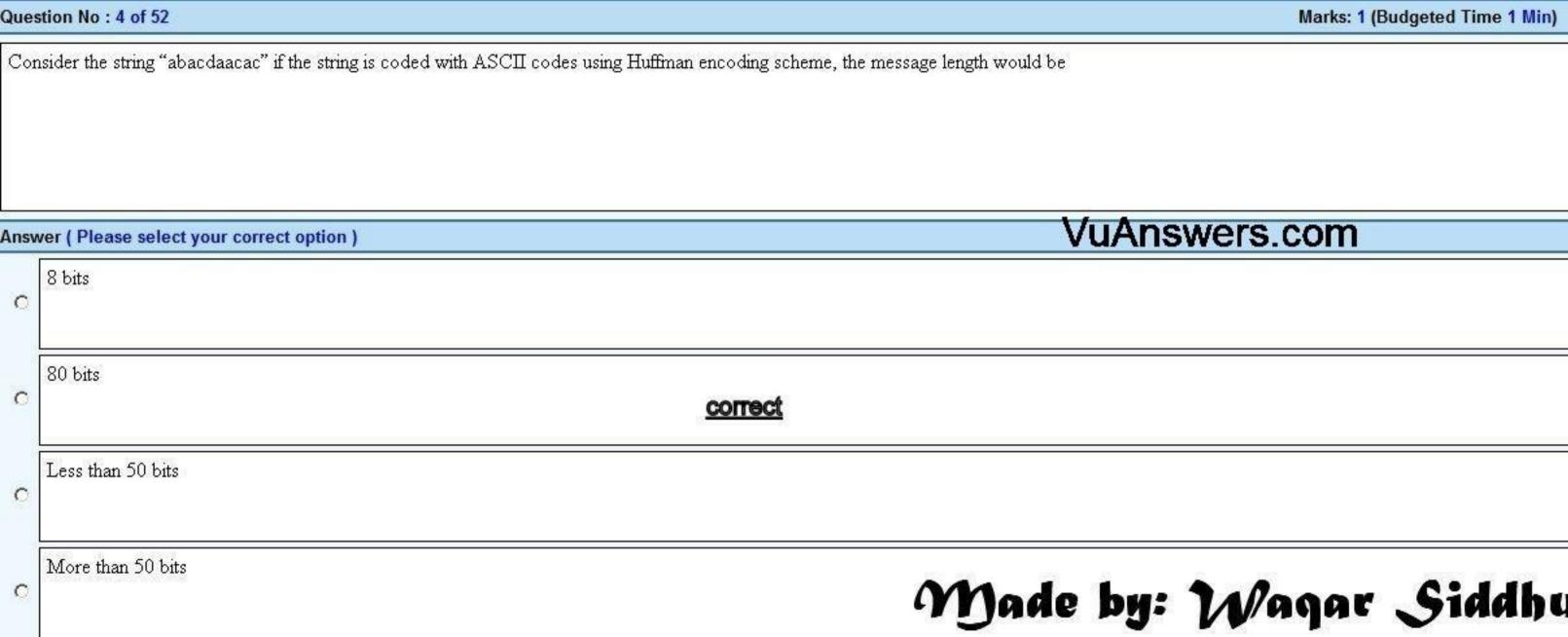








Que	stion No : 3 of 52	Marks: 1 (Budgeted Time 1 Min)
Usii	ng ASCII standard the string "abacdaacac" will be encoded with bits.	
Ansv	ver ( Please select your correct option )	VuAnswers.com
С	80 <b>correct</b>	
c	160	
С	320	
С	100	Made by: Waqar Siddhu



VuAnswers.com

## Answer ( Please select your correct option )

 $\frac{n^3 + 15n^2 + 11n}{6}$ 

$$\Theta\left(4n^3 + 15n^2 + 11n\right)$$

Jn • 11n

 $\Theta(15n^2)$ 

## correct

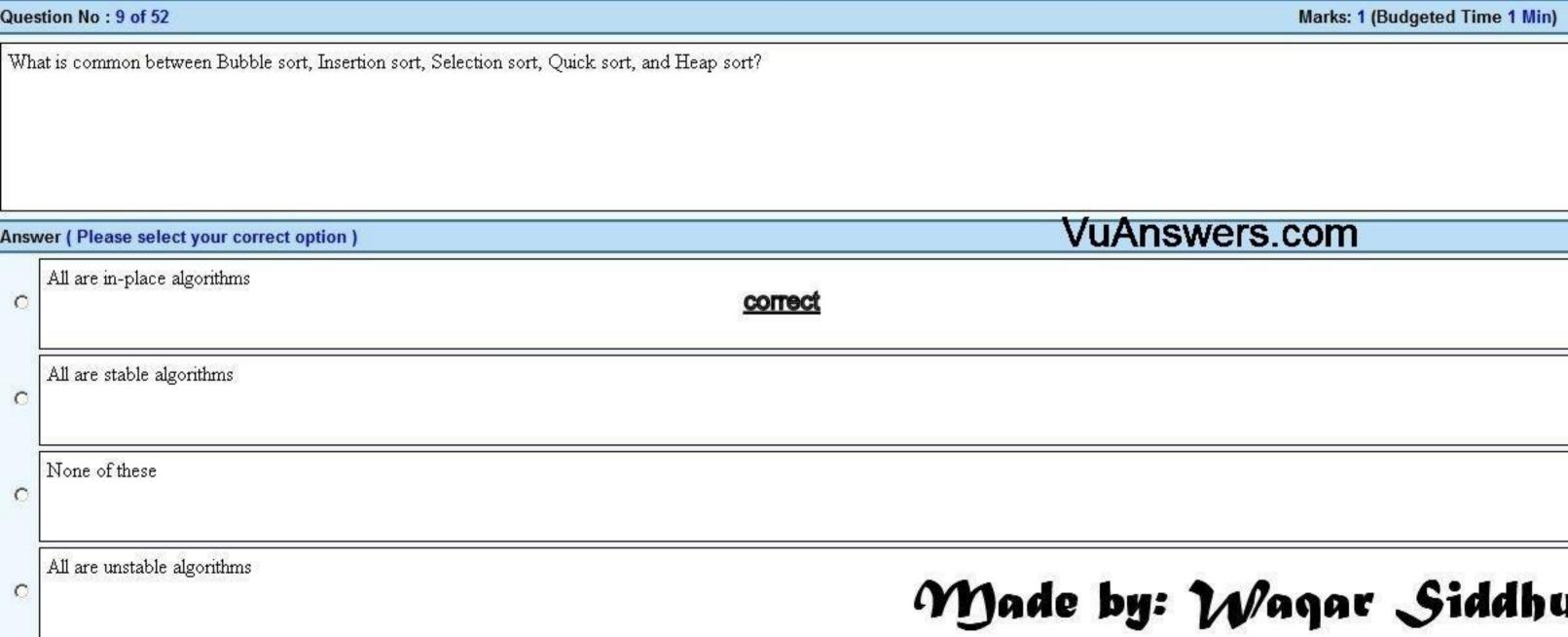
e(n³)

\*\*Magar Siddhu

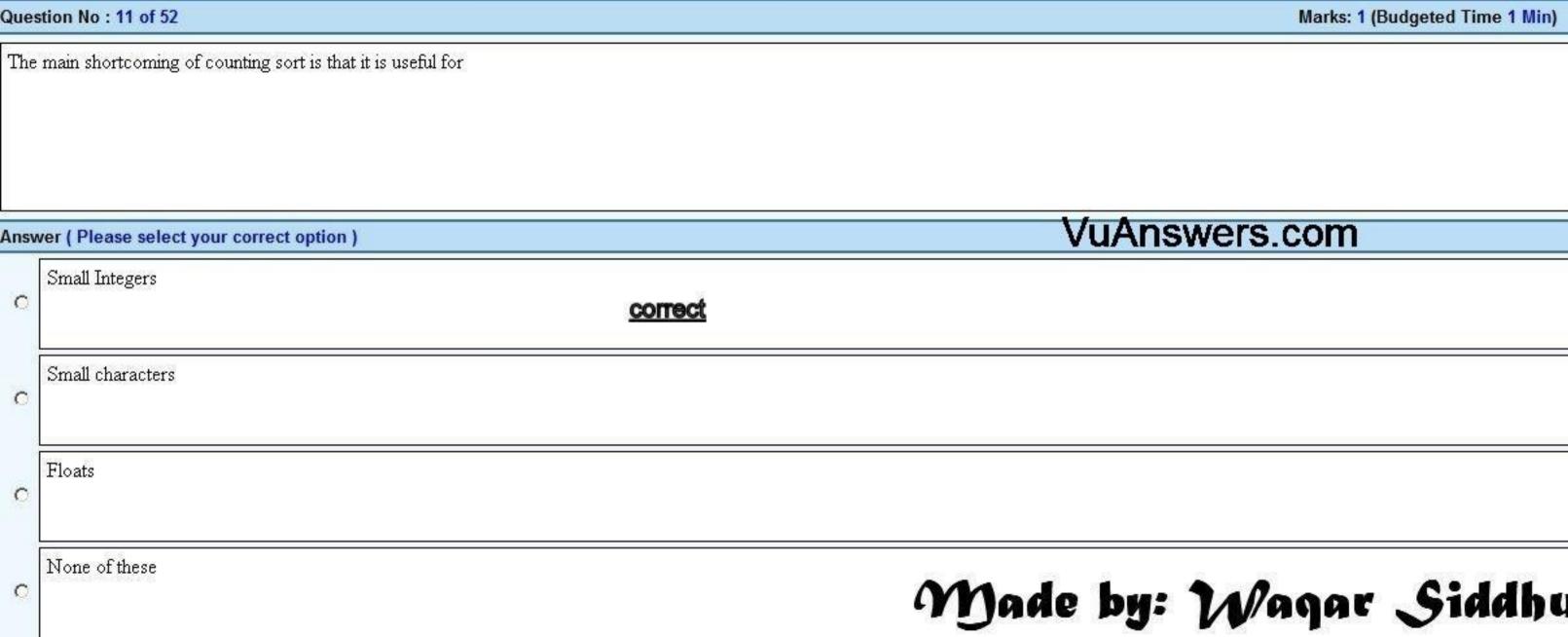


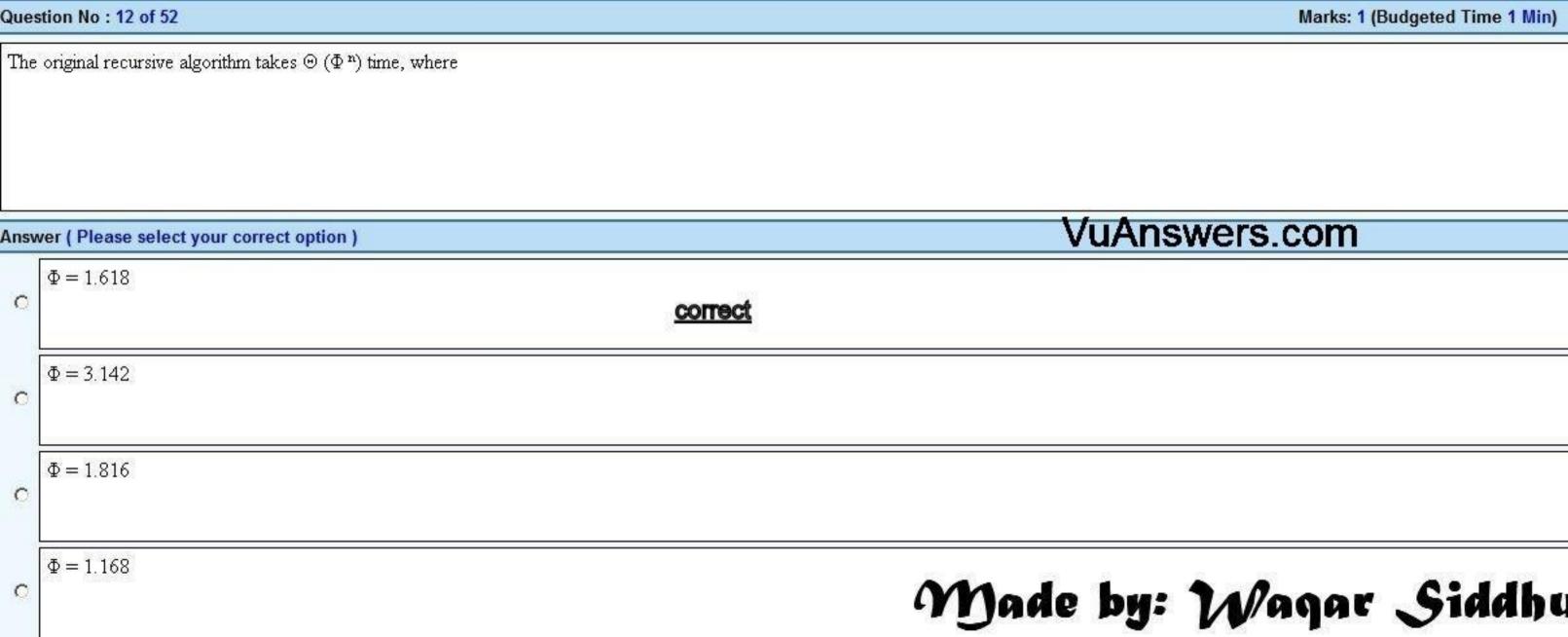
Que	stion No : 7 of 52	Marks: 1 (Budgeted Time 1 Min)
Siev	ve Technique applies to problems where we are interested in finding a single item from a larger set of	
47		\/uAngura com
Ansv	wer ( Please select your correct option )	VuAnswers.com
О	n items <u>correct</u>	
О	phases	
C	pointers	
О	constant	Made by: Waqar Siddhu

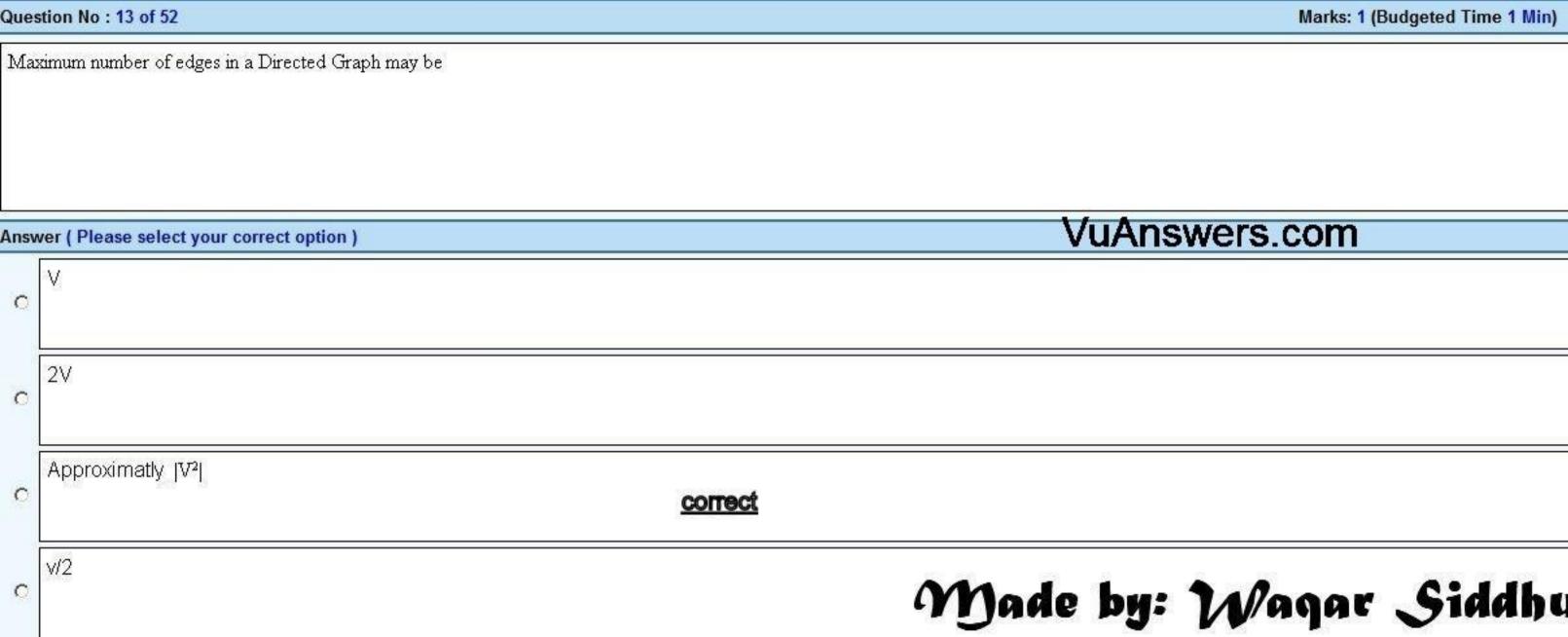
Question No : 8 of 52		Marks: 1 (Budgeted Time 1 Min)	
Αh	neap is a left-complete binary tree that conforms to the		
		VuAnswers.com	
Ansı	wer ( Please select your correct option )	VU/ALISWELS.COITI	
С	(log n) order		
С	increasing order only		
c	decreasing order only		
С	heap order	Made by: Waqar Siddhu	

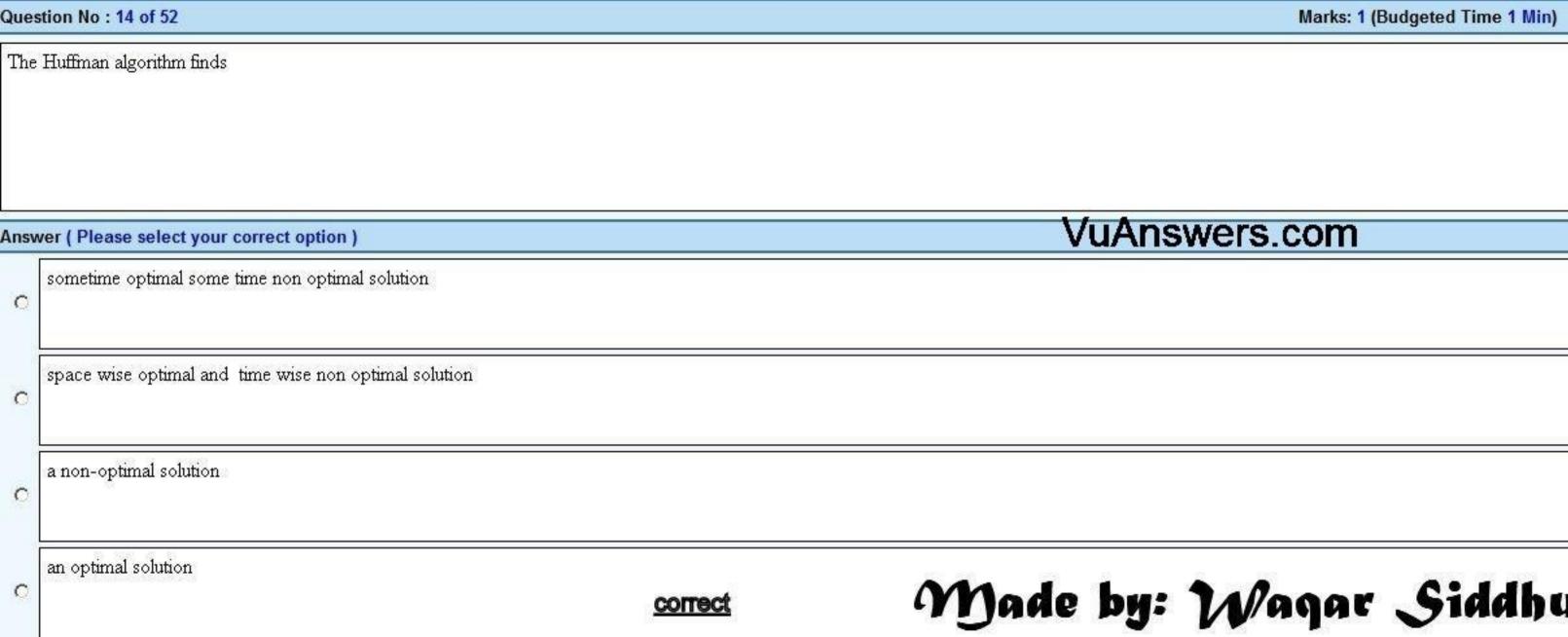


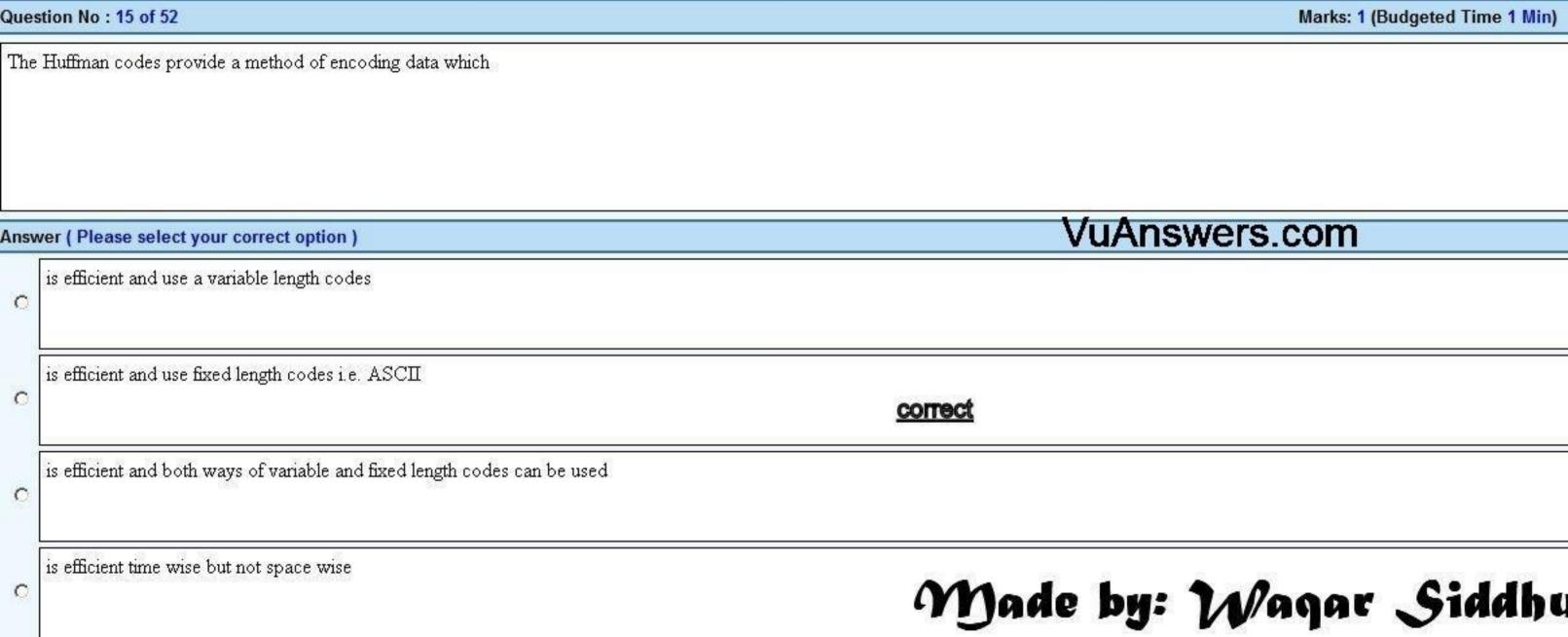
Que	stion No : 10 of 52	Marks: 1 (B	udgeted Time 1 Min)
In i	n-place sorting algorithm is one that uses no array	for storage.	
Ansv	wer ( Please select your correct option )	VuAnswers.com	
О	two dimensional		
o	three dimensional		
0	n dimensional		
c	additional	omect Maqar	Siddhu



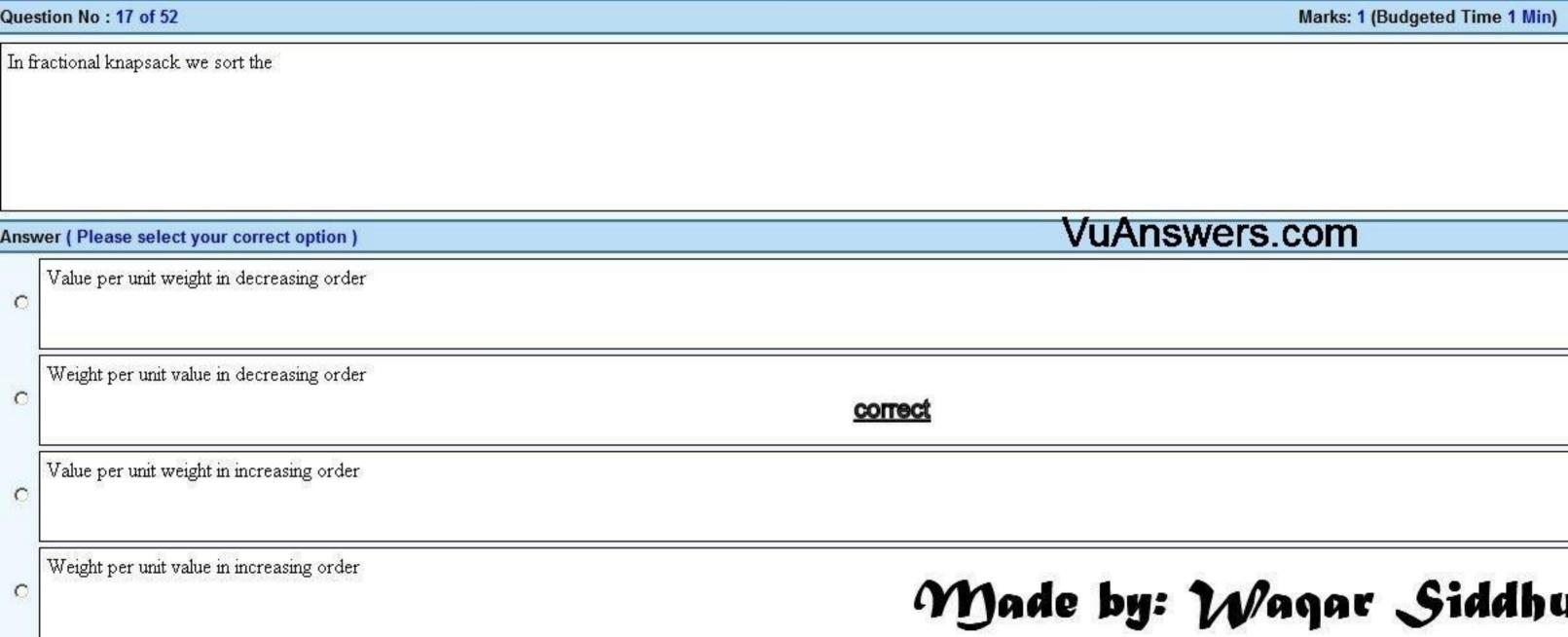




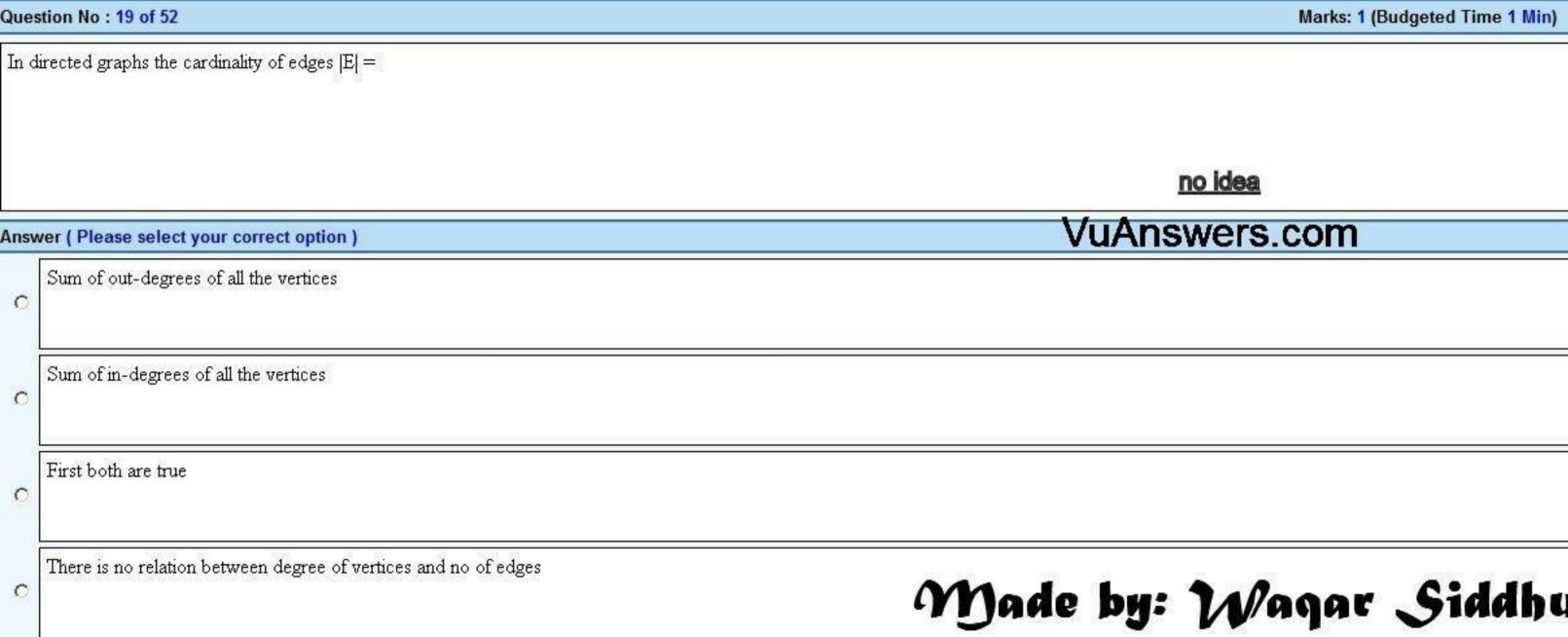




Ques	stion No : 16 of 52	Marks: 1 (Budgeted Time 1 Min)
Usir	ng ASCII standard the string "abacdaacac" will be encoded with bytes.	
Answ	ver ( Please select your correct option )	VuAnswers.com
c	10	
С	16	
c	32	
C	8 <u>correct</u>	Made by: Waqar Siddhu

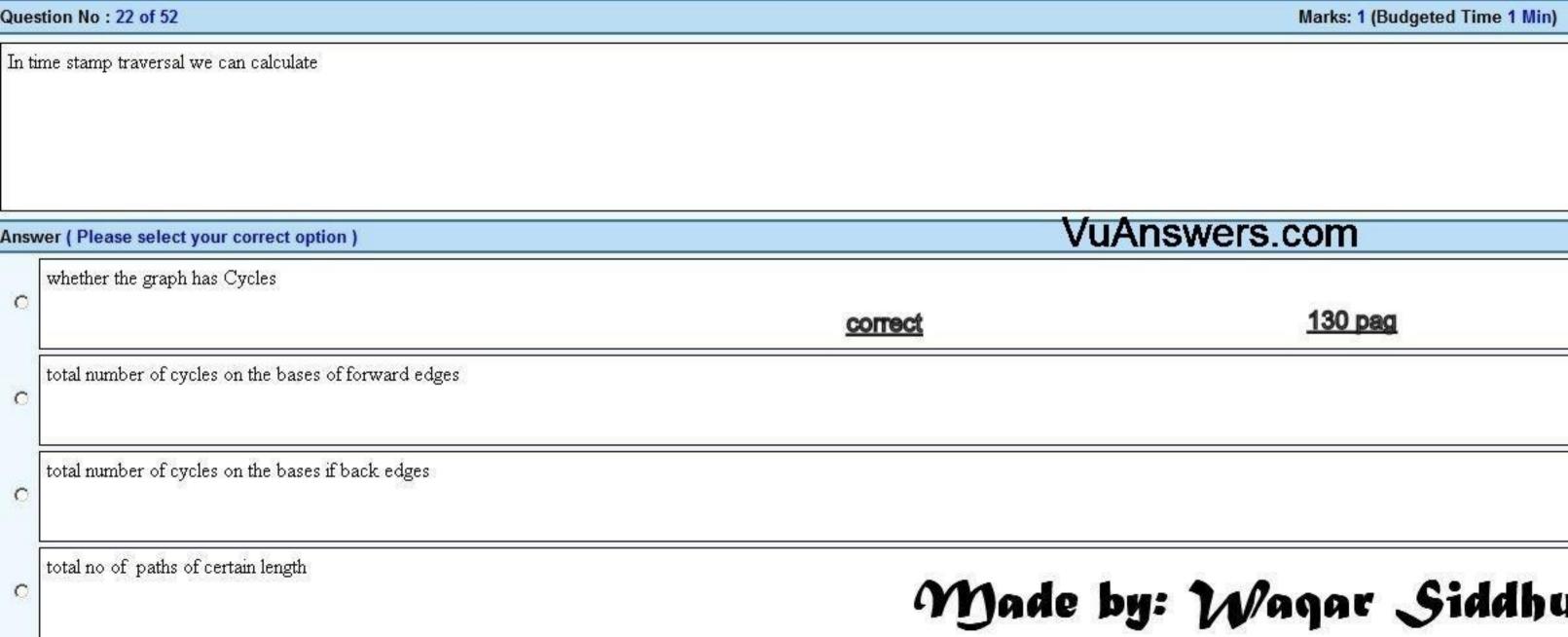


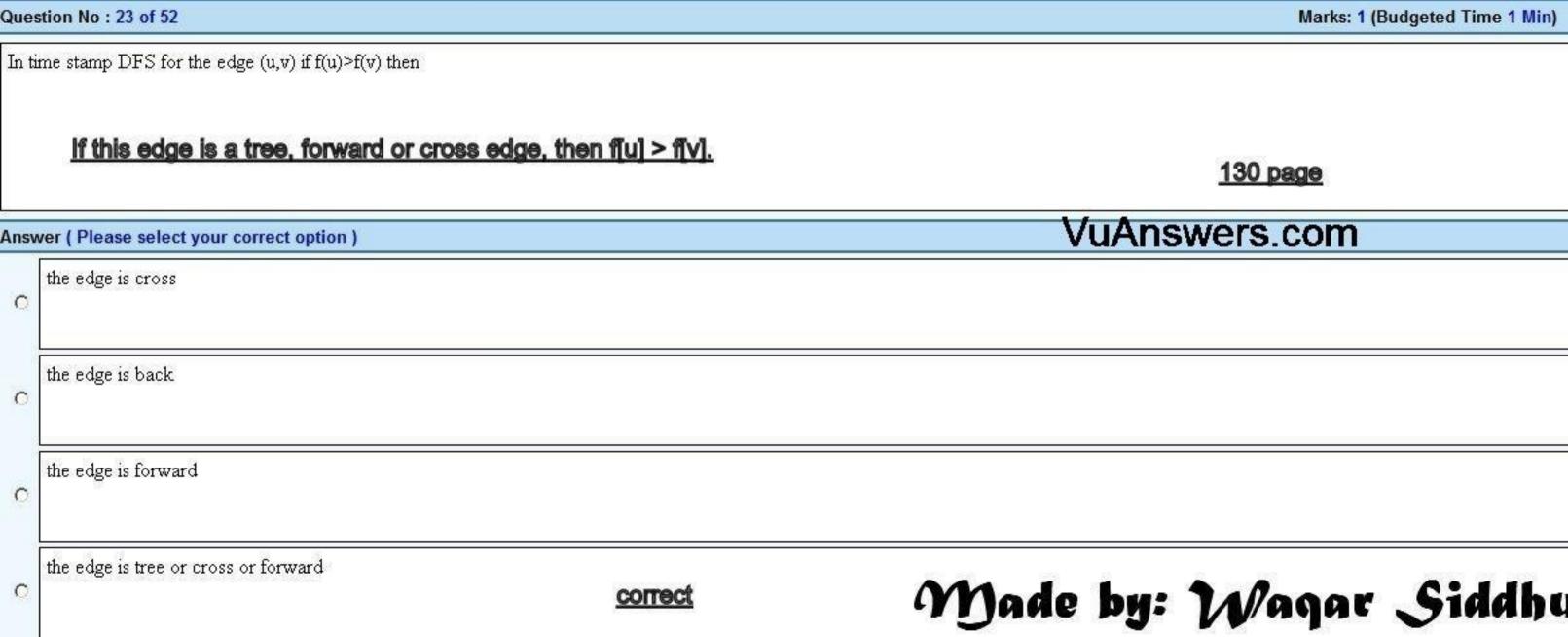
Que	stion No : 18 of 52	Marks: 1 (Budgeted Time 1 Min)
The	greedy part of the Huffman encoding algorithm is to first find two nodes with	frequency.
467		
Ansv	ver ( Please select your correct option )	VuAnswers.com
0	Larger	
О	Smallest <u>correct</u>	<u>100</u>
c	Balance	
С	Character	Made by: Waqar Siddhu

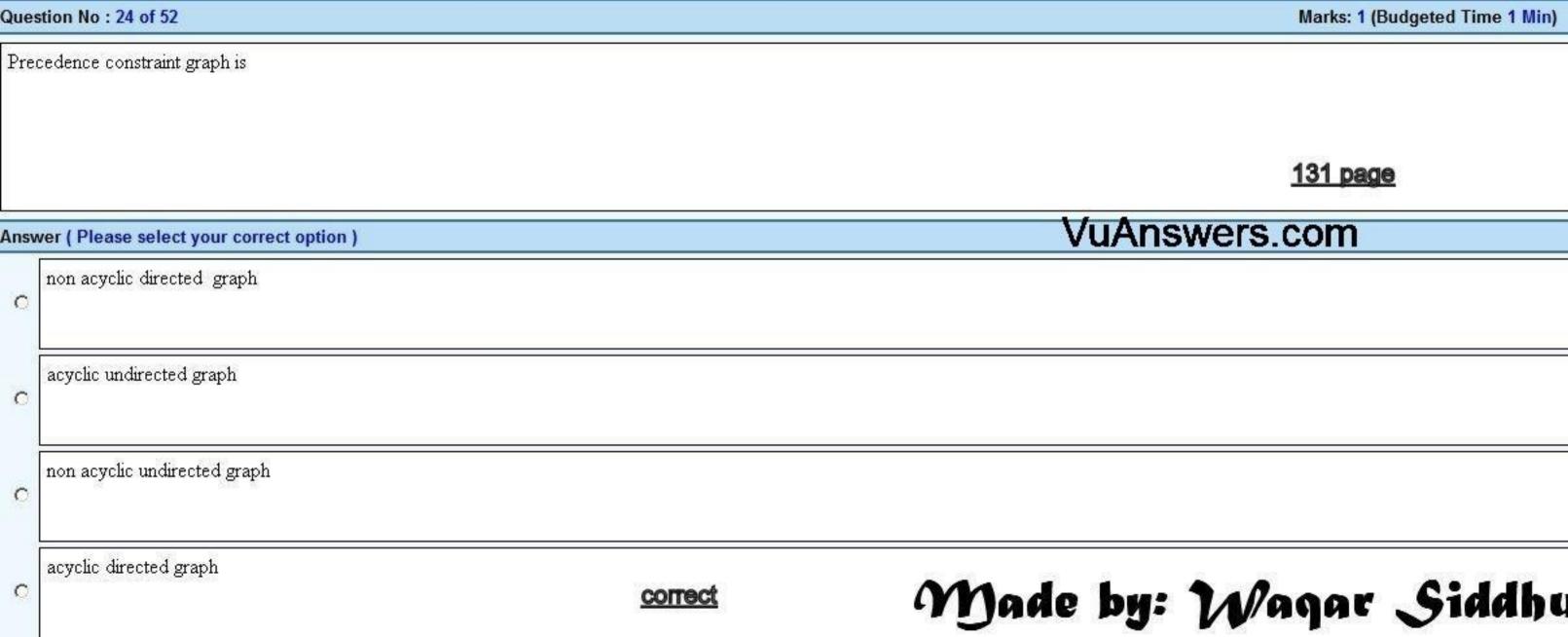


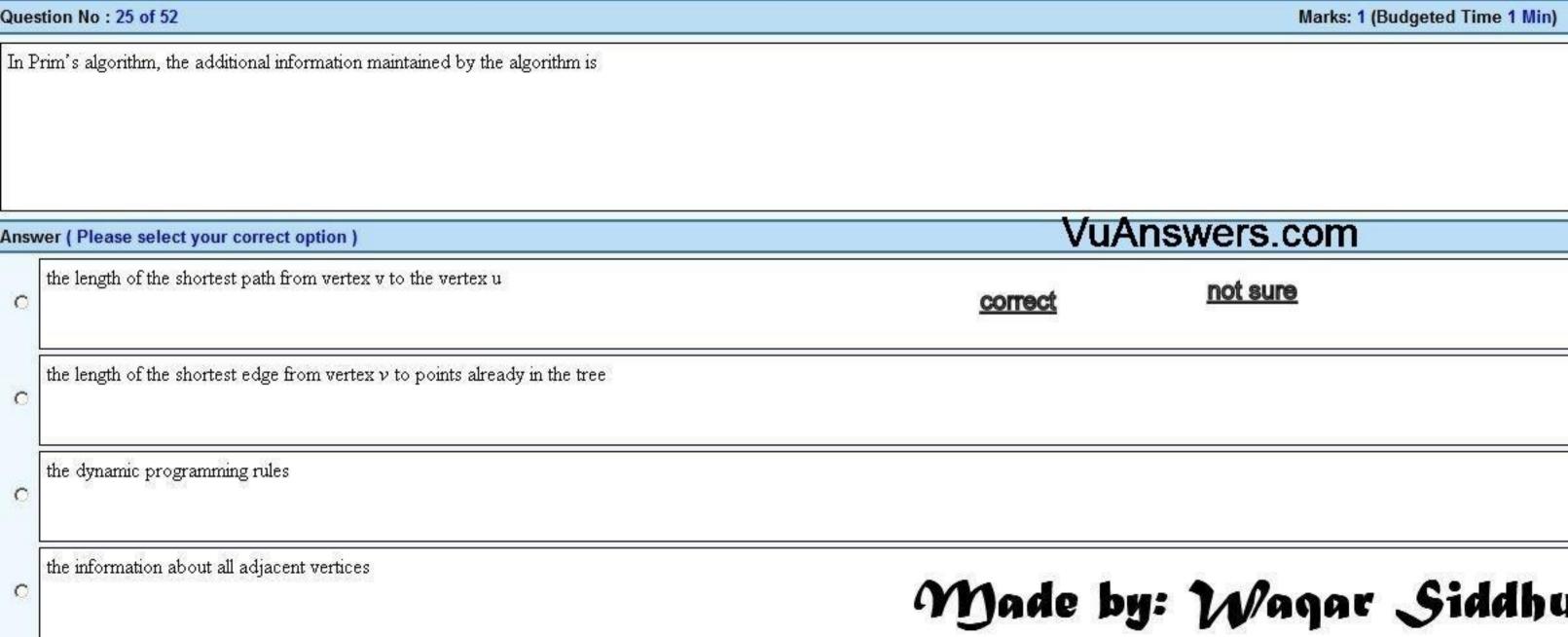


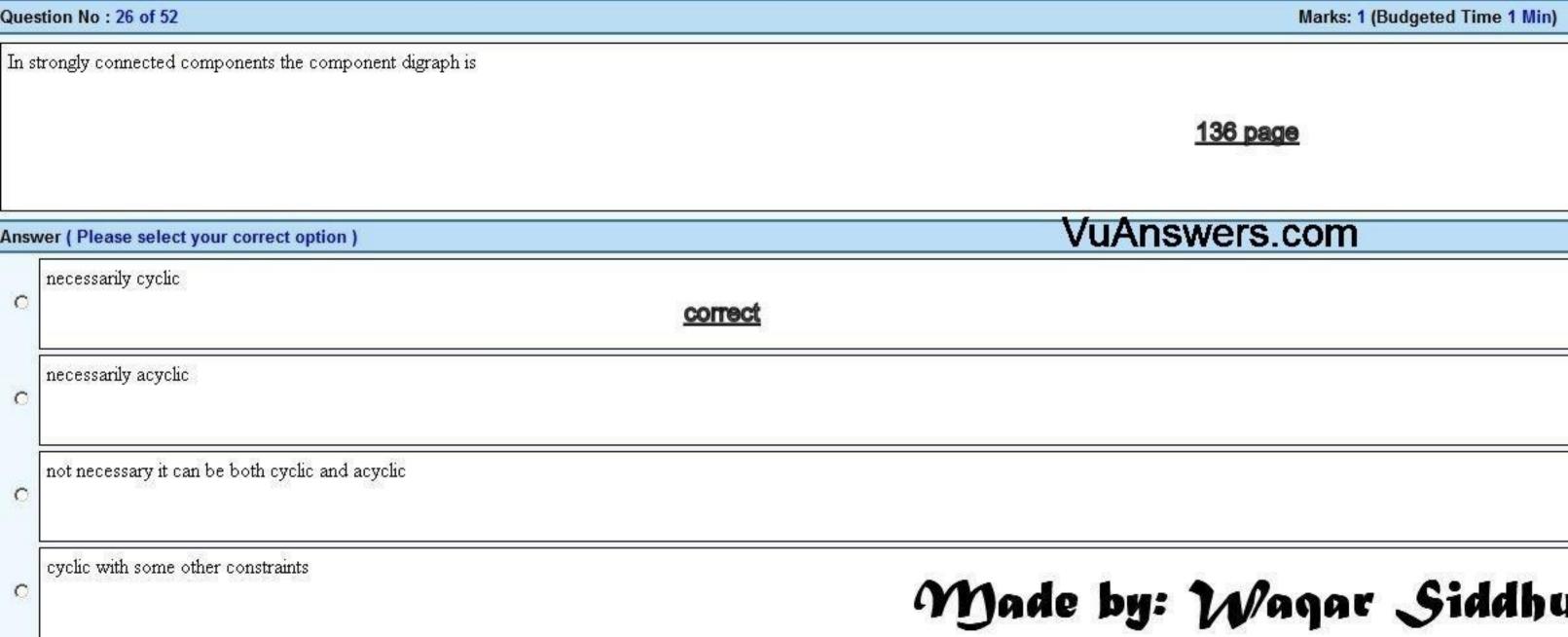
Que	ion No : 21 of 52 Marks: 1 (Budgeted Time 1 Min)
Inυ	directed graphs there
Fo	r undirected graphs, there is no distinction between forward and back edges. By convention they are called back edges. Furthermore, there are no cross edges (can you see why not?)
Ansv	er ( Please select your correct option ) VuAnswers.com
0	are no Cross edges but have forward and back edges
C	are only forward edges
c	is convention of only back edges <u>correct</u>
c	is convention of forward edges Magar Siddho

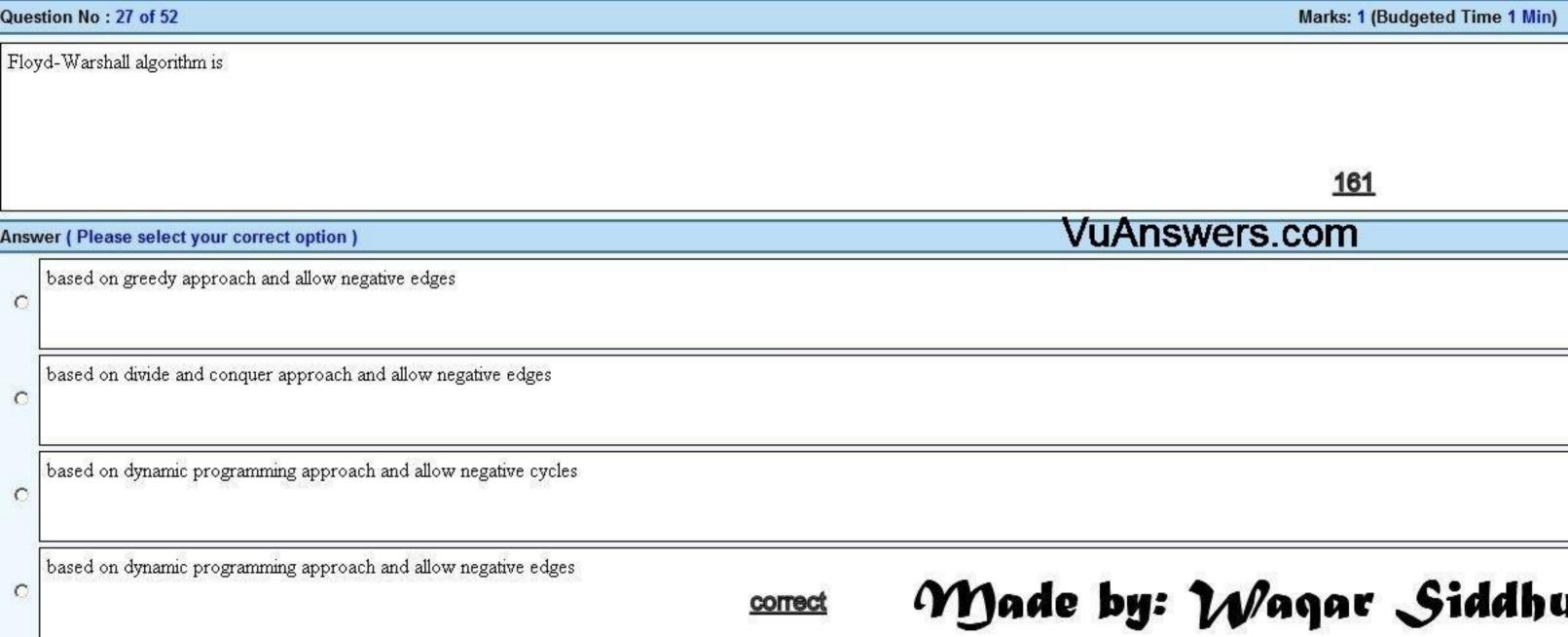


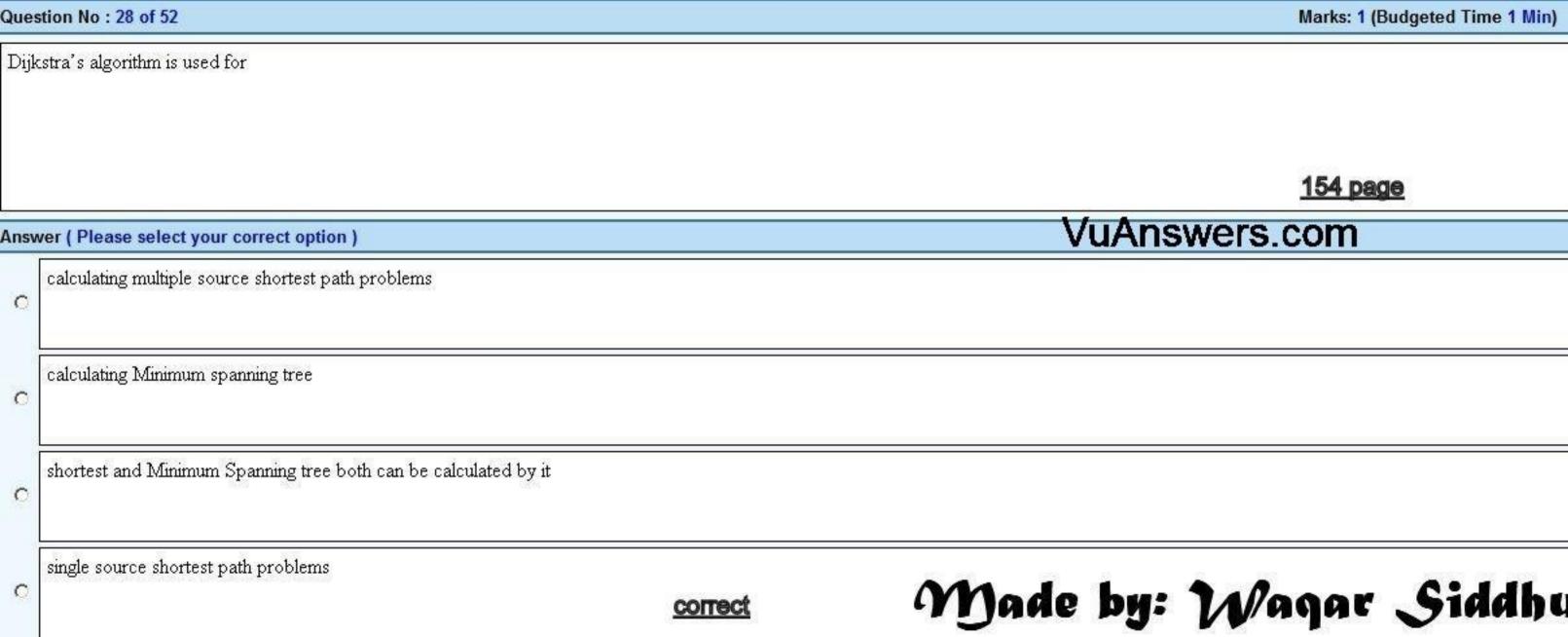


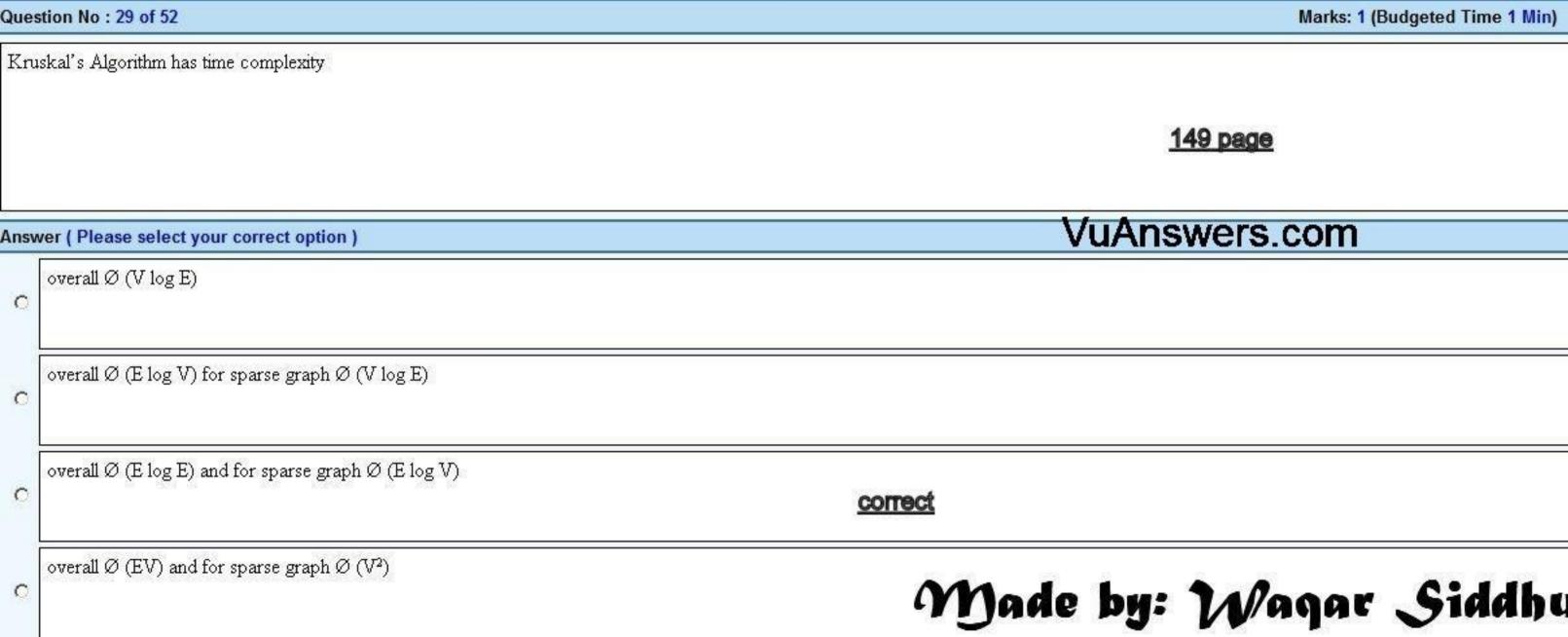


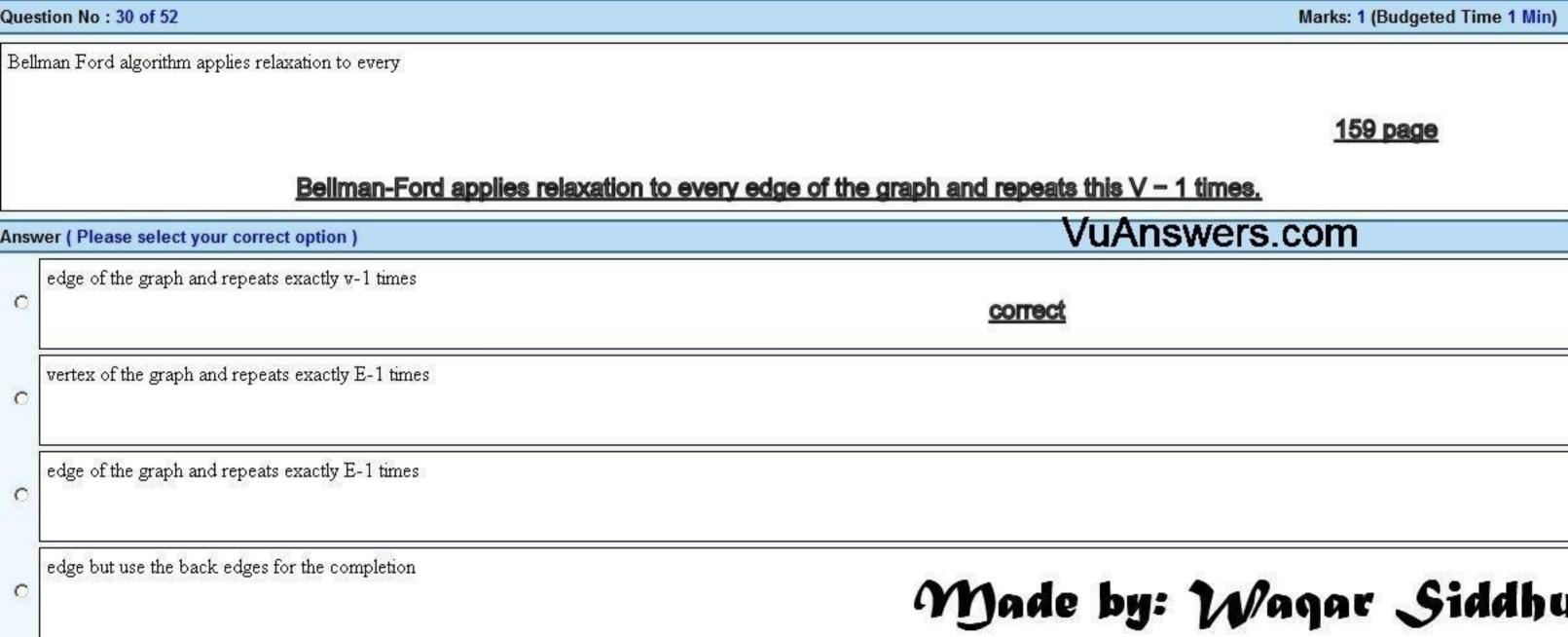


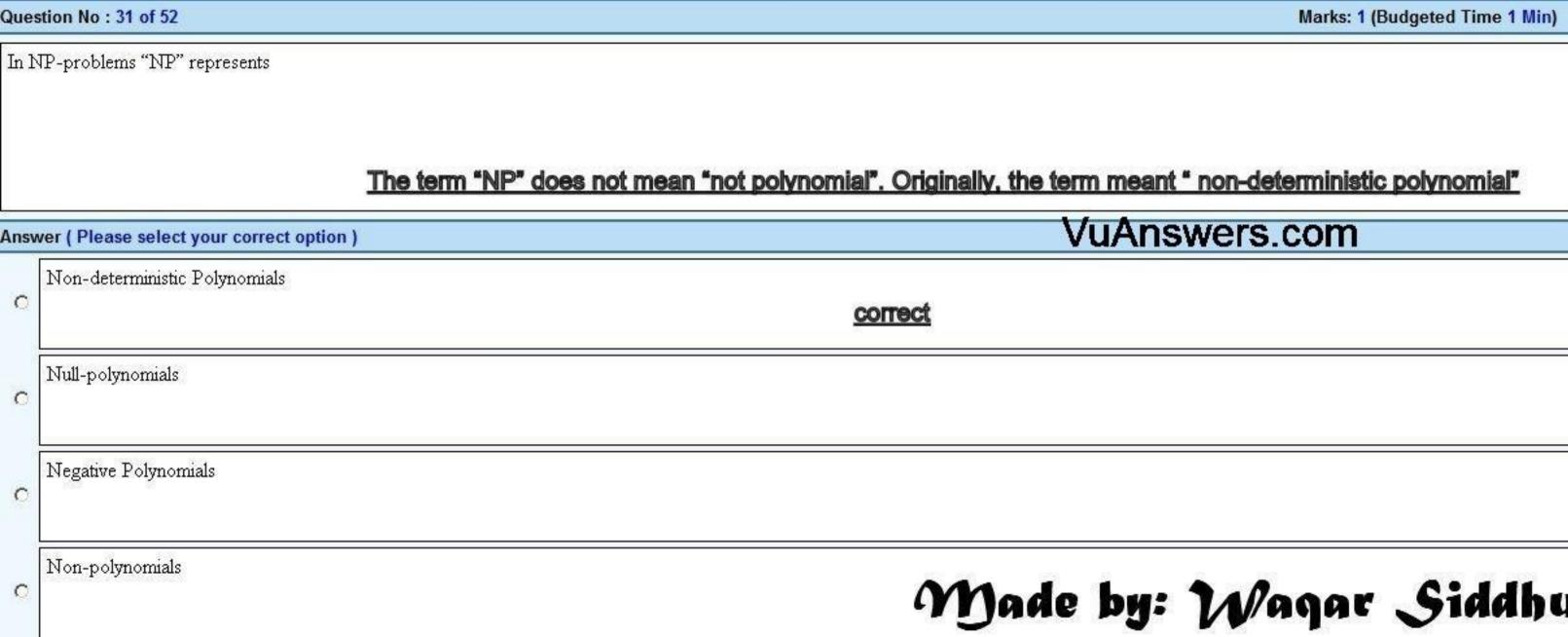




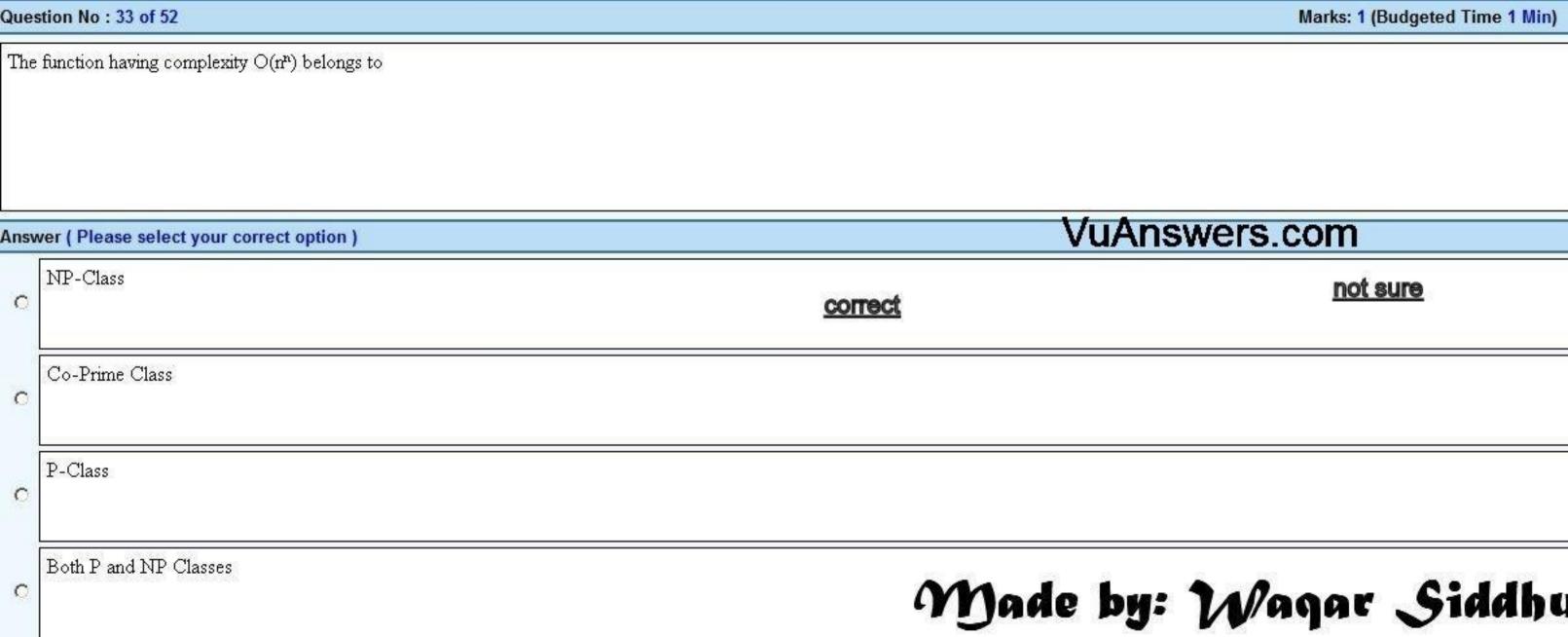




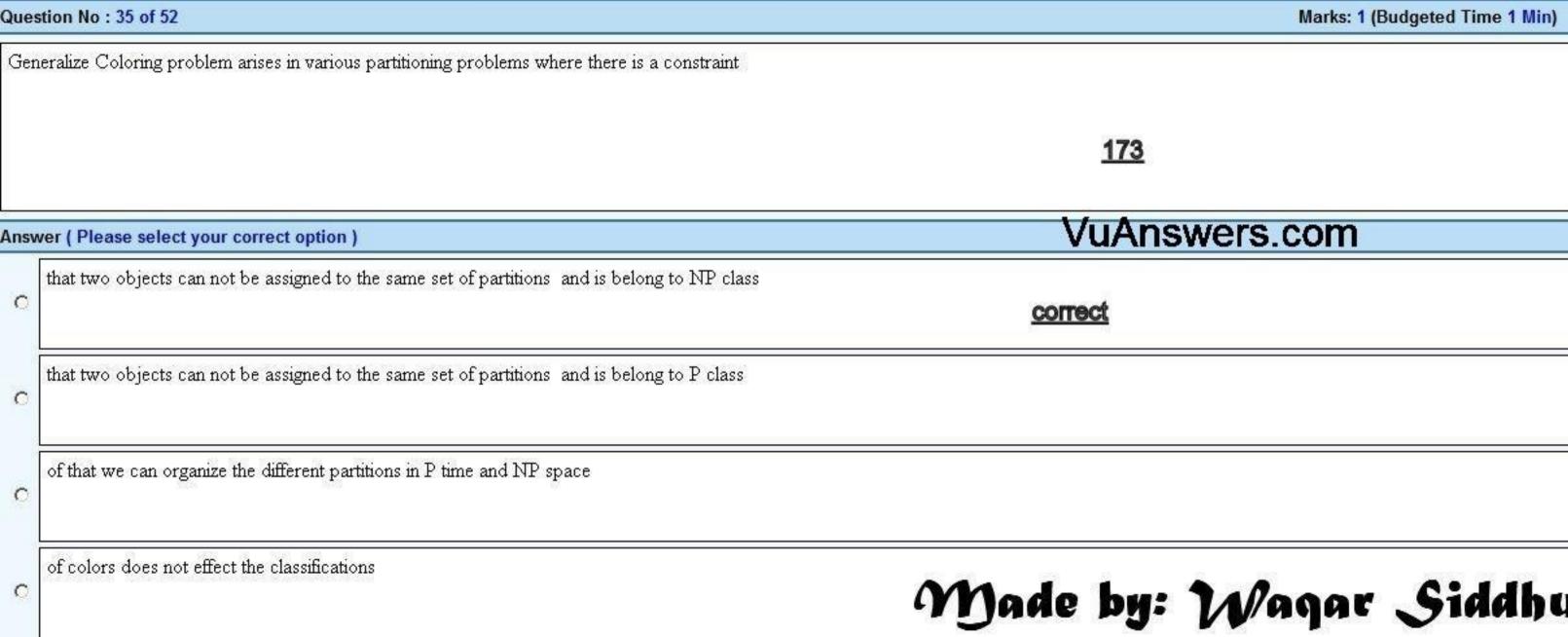




Answer ( Please select your correct option ) VuAnswers.com	
C P-Class	
C NP-Class	
Co-NP Class	
Unpredictable class	Made by: Waqar Siddhu

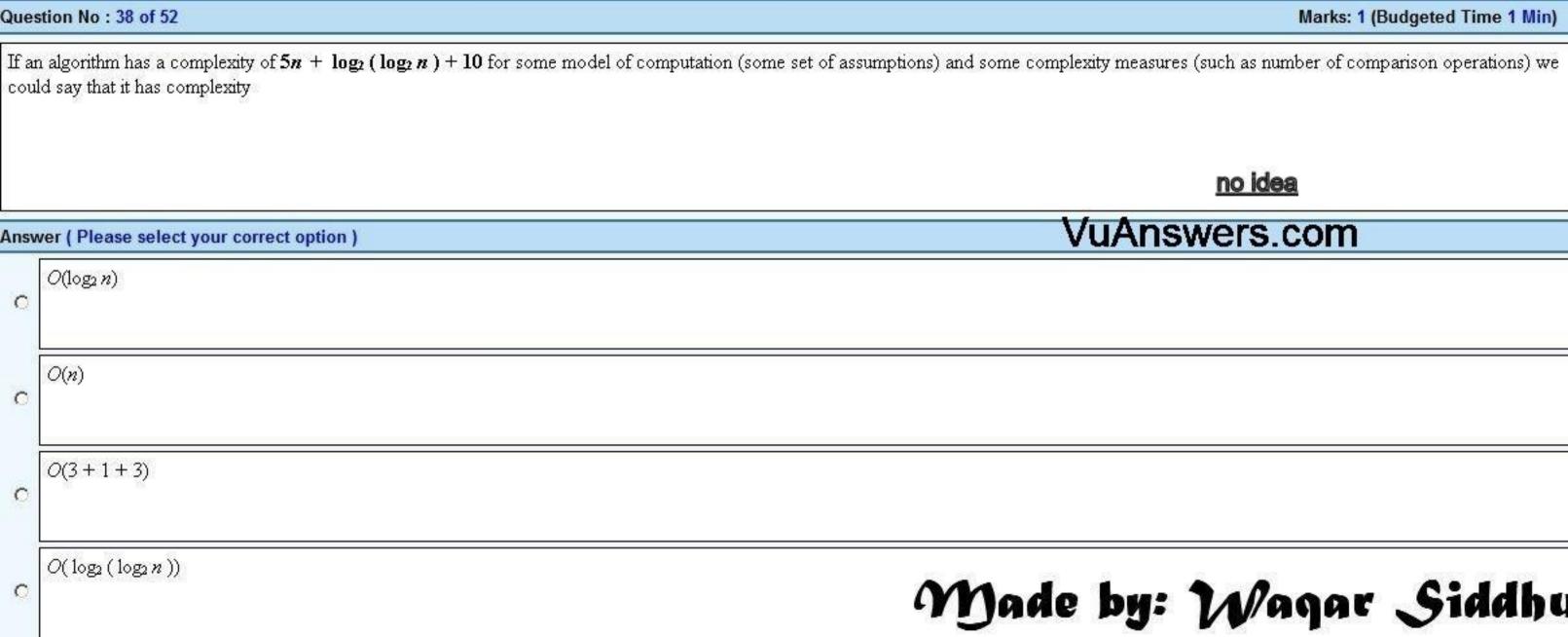


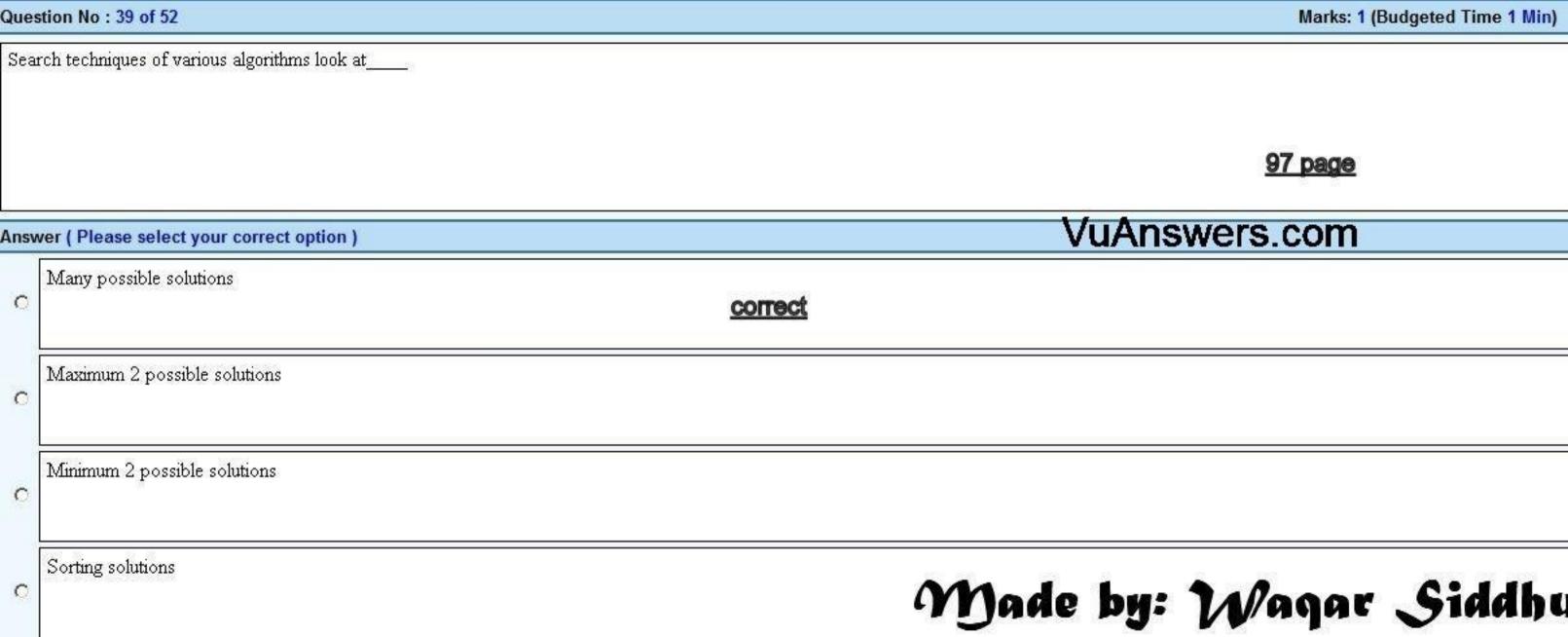
Ques	stion No : 34 of 52	Marks: 1 (Budgeted Time 1 Min)
3-c	olor problem is known as	
		<u>137</u>
Ansv	ver ( Please select your correct option )	VuAnswers.com
c	P	
С	NPC	correct
c	Co-NP	
c	P and NP	Made by: Waqar Siddhu

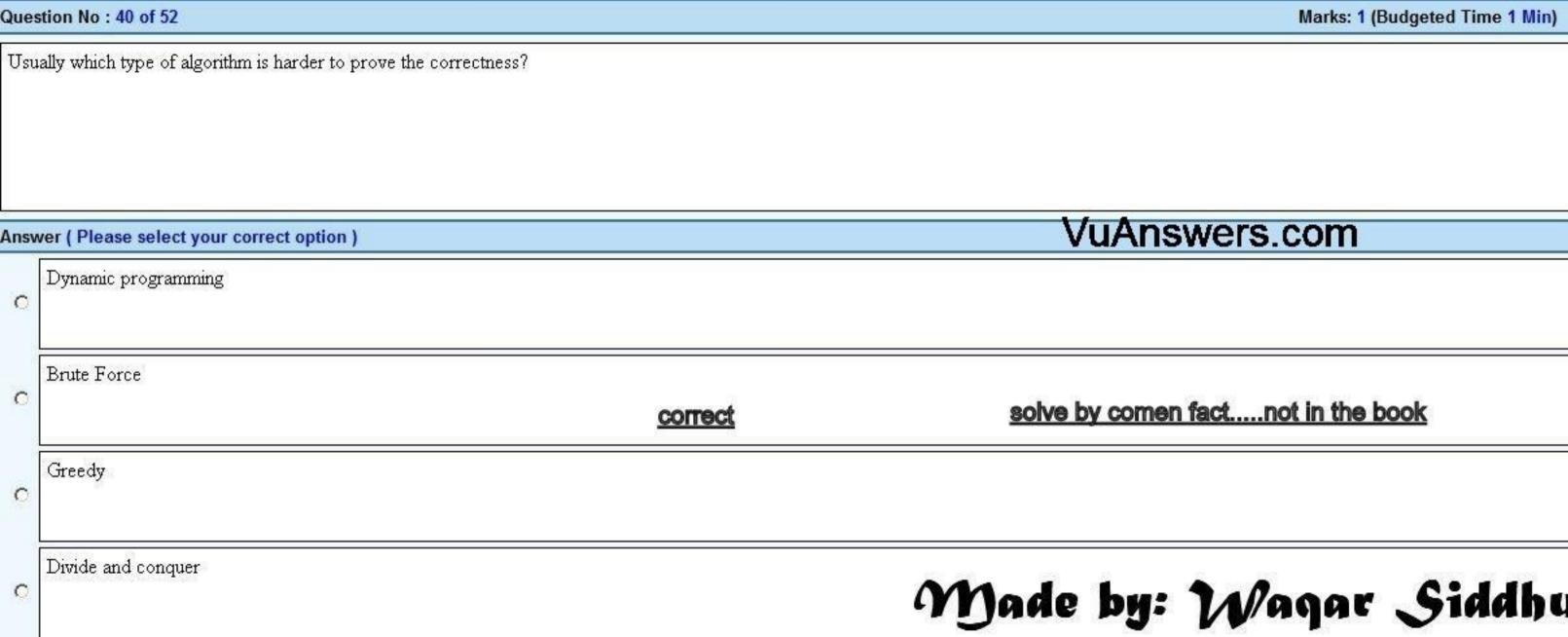


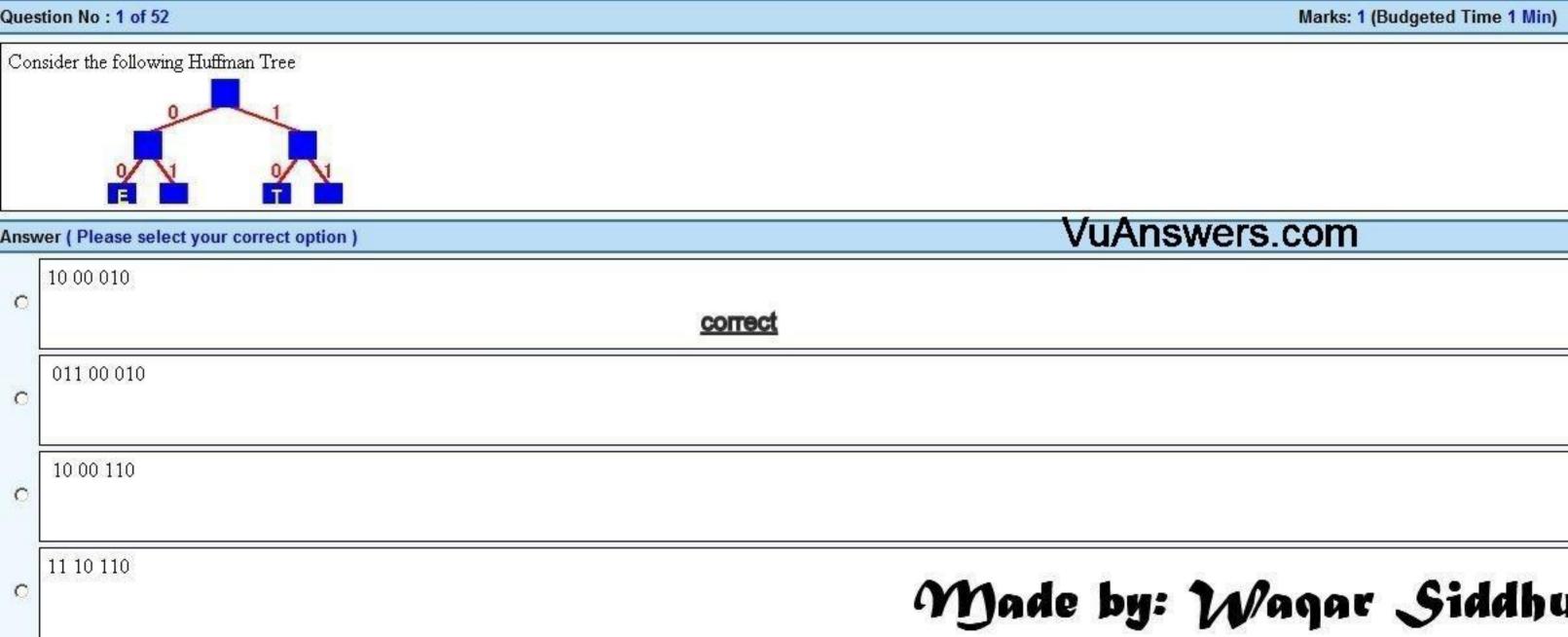
Question No : 36 of 52		Marks: 1 (Budgeted Time 1 Min)
In th	he 3-coloring problem, for two vertices to be in the same group, they must be not	to each other.
		<u>176 page</u>
Ansv	ver ( Please select your correct option )	VuAnswers.com
С	Apart from	
С	Far from	
c	Near to	
c	Adjacent to <u>correct</u>	Made by: Waqar Siddhu

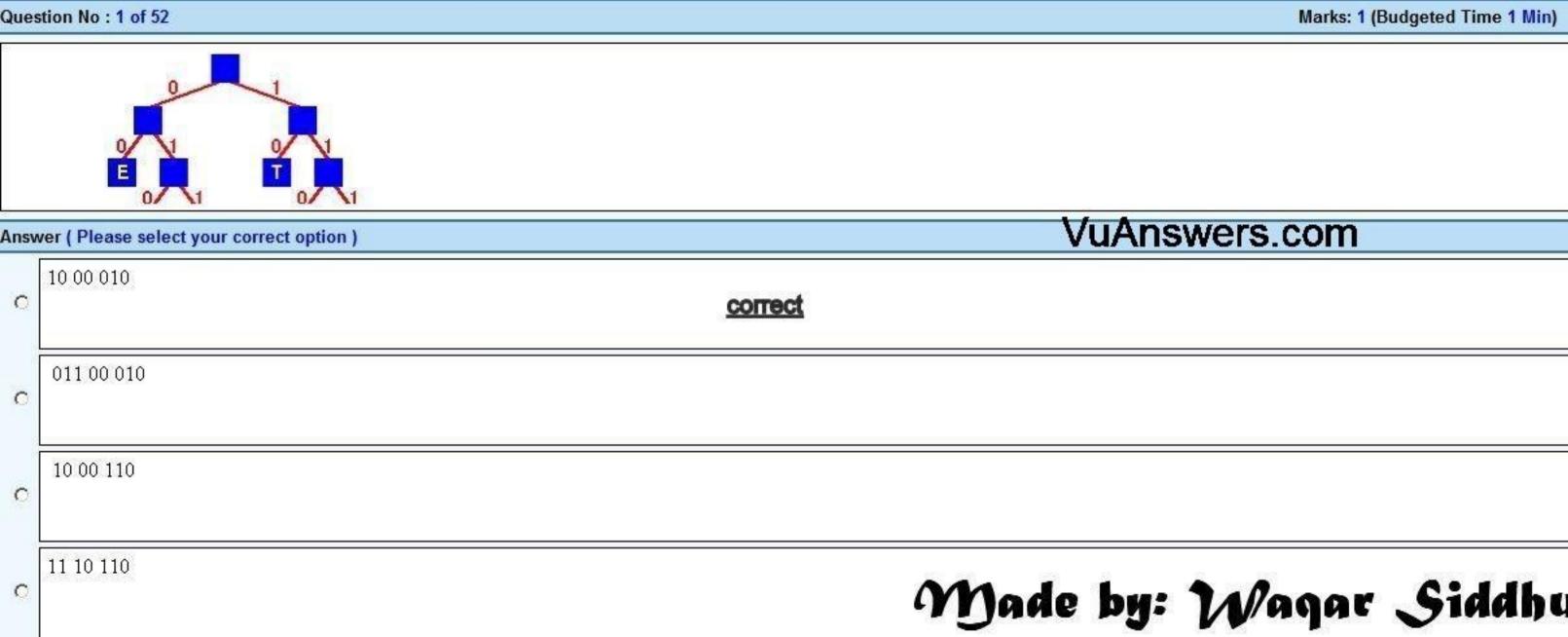
Ques	estion No : 37 of 52	Marks: 1 (Budgeted Time 1 Min
Siev	ve Technique can be applied to solve	
		35 page
Ansv	wer ( Please select your correct option )	VuAnswers.com
С	Selection problems	correct
c	Arguement problems	
c	Dynamic problems	
С	Greedy problems	Made by: Waqar Siddh

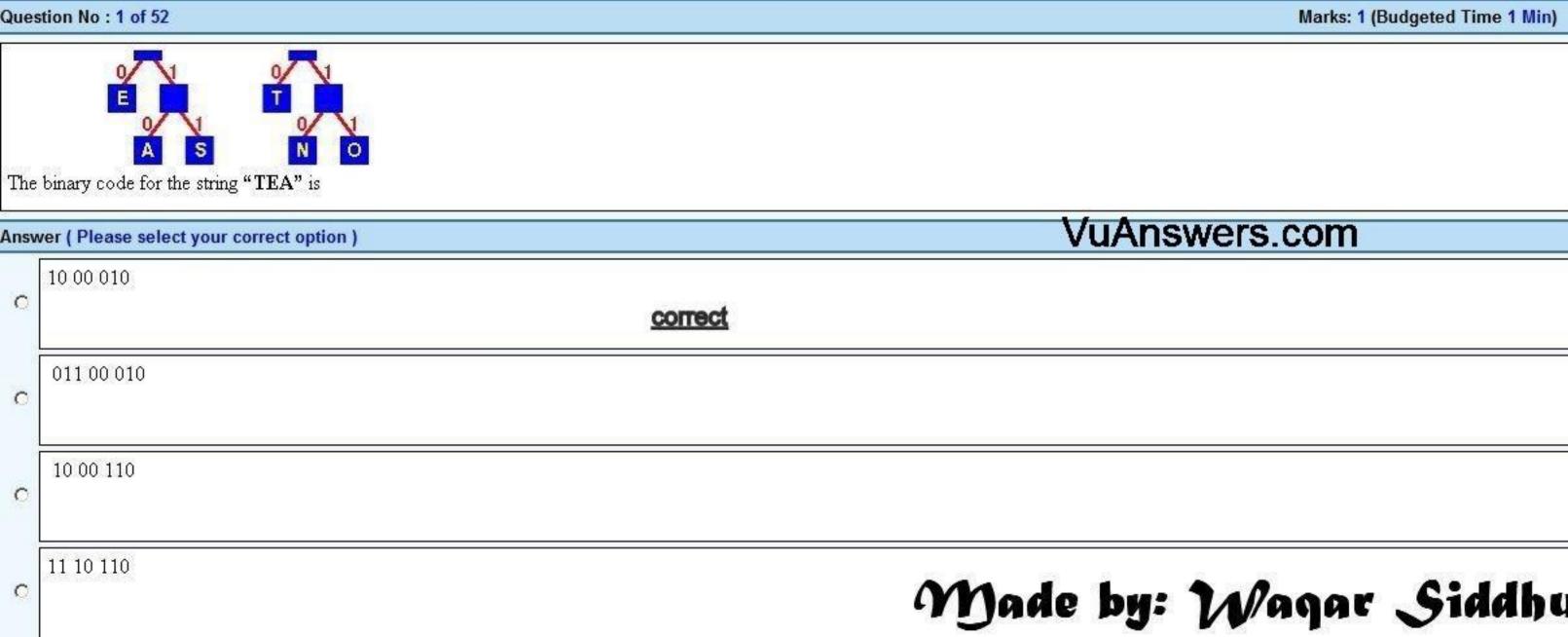


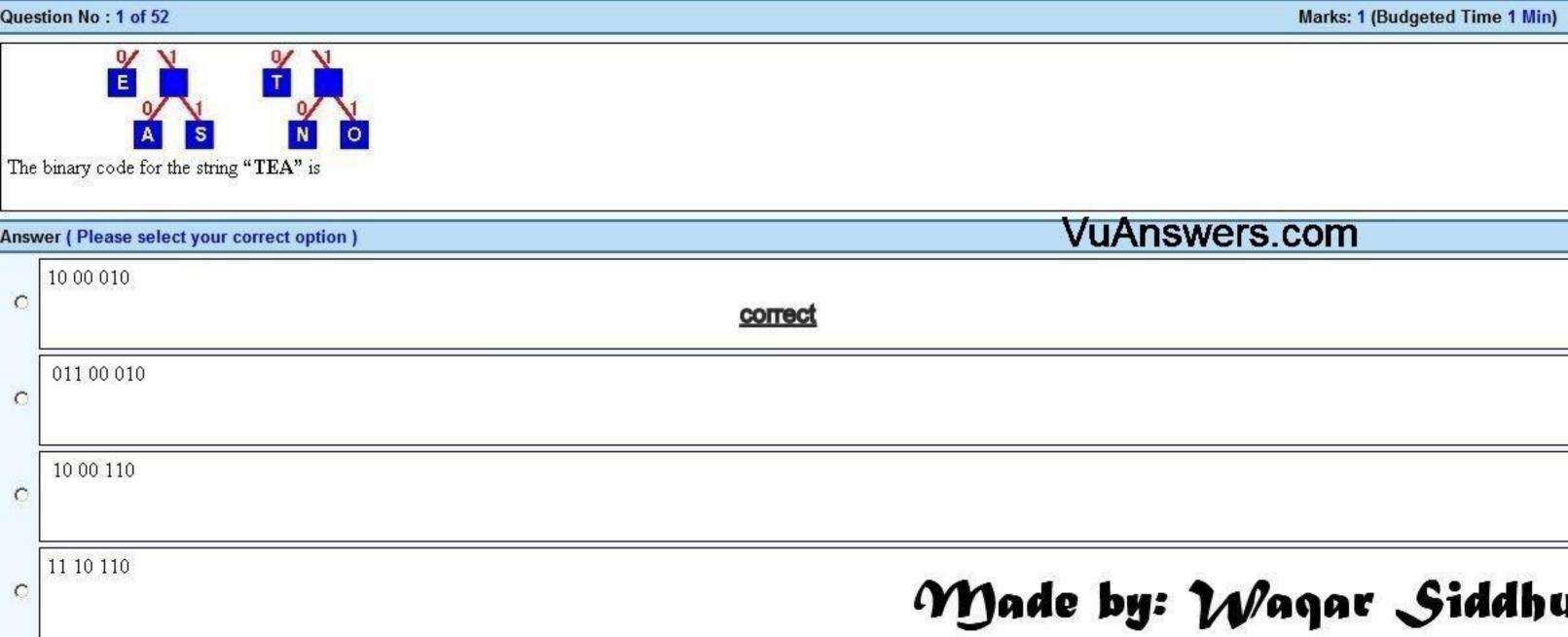


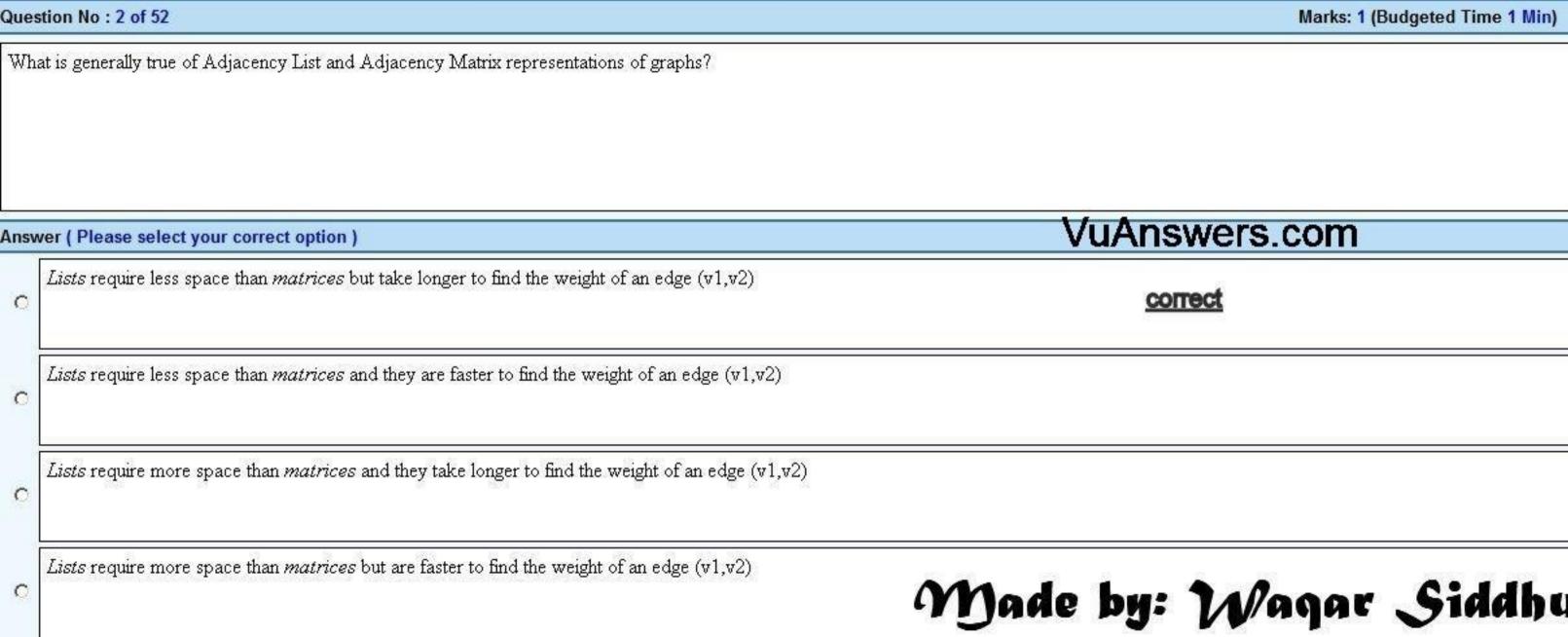






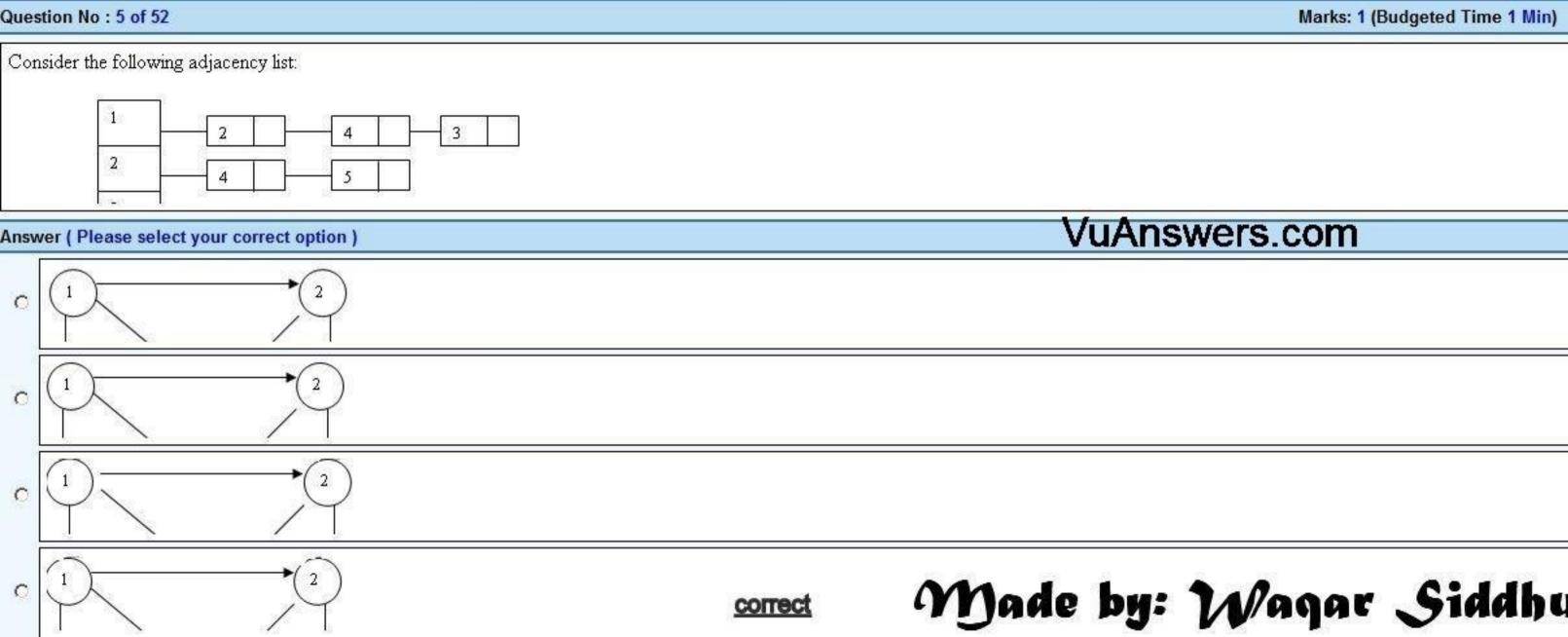


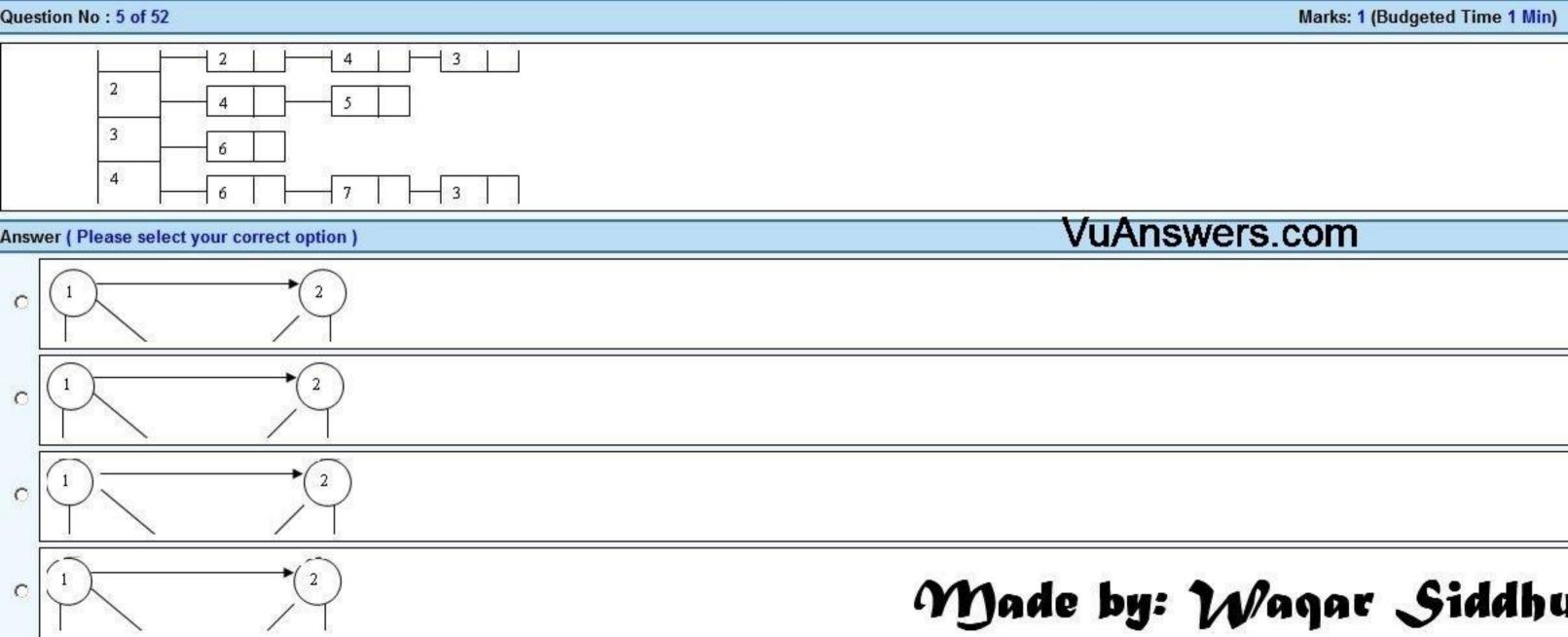


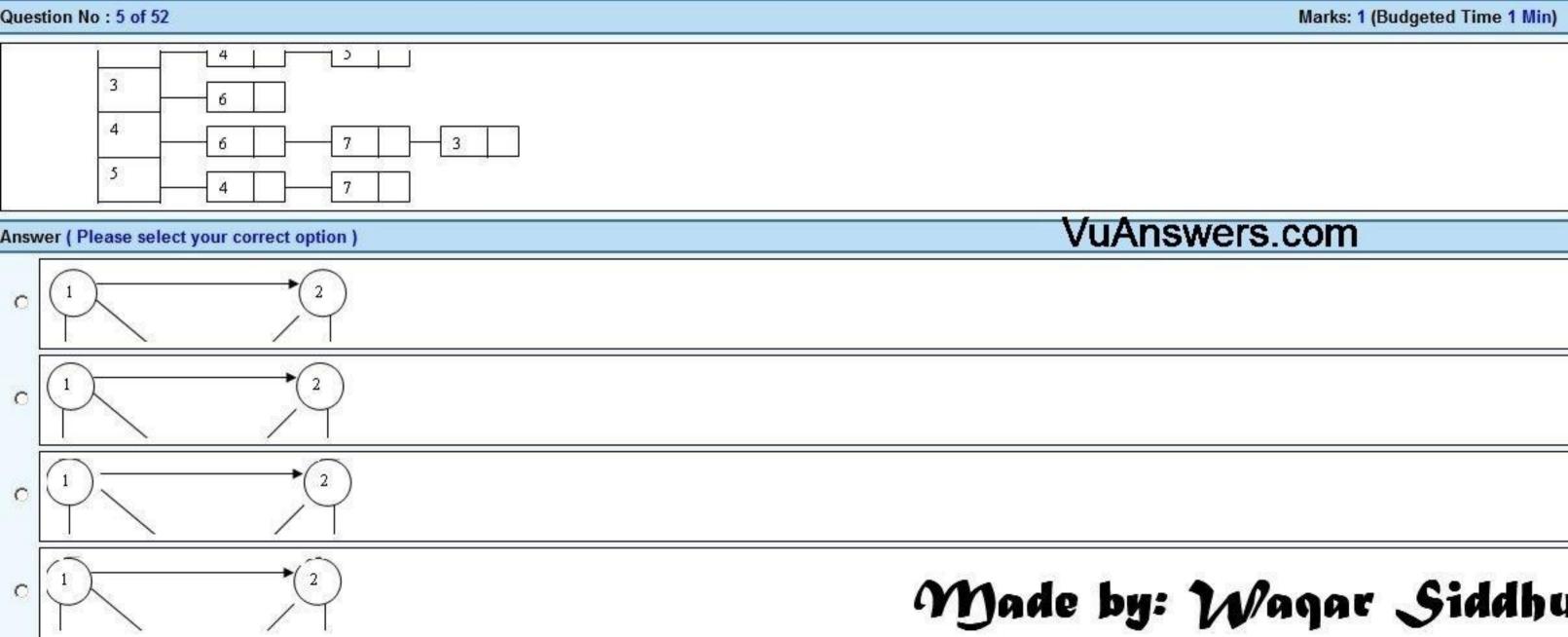


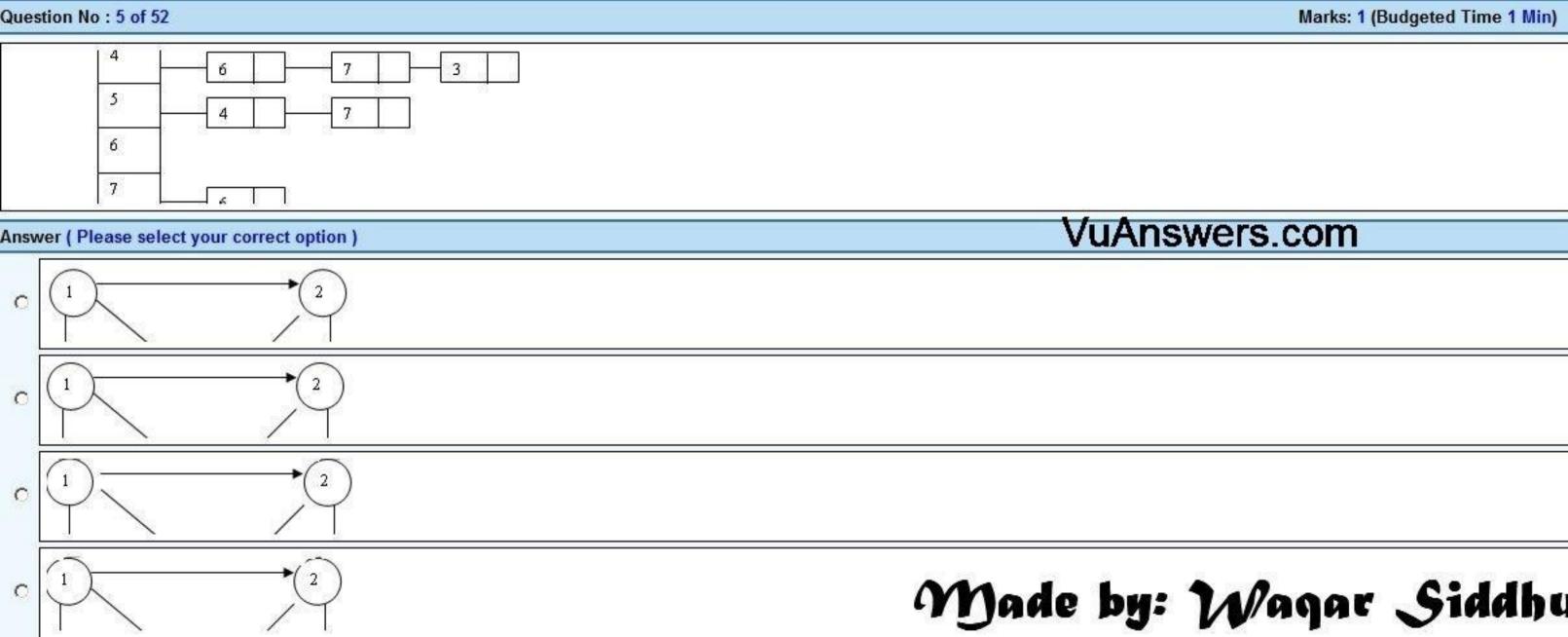
Question No : 3 of 52		Marks: 1 (Budgeted Time 1 Min)	
If a	graph has v vertices and e edges then to obtain a spanning tree we have to delete		
Ansı	wer ( Please select your correct option )	VuAnswers.com	
c	v edges.		
c	v – e + 5 edges		
C	v + e edges.		
С	None of these correct	Made by: Waqar Siddhu	

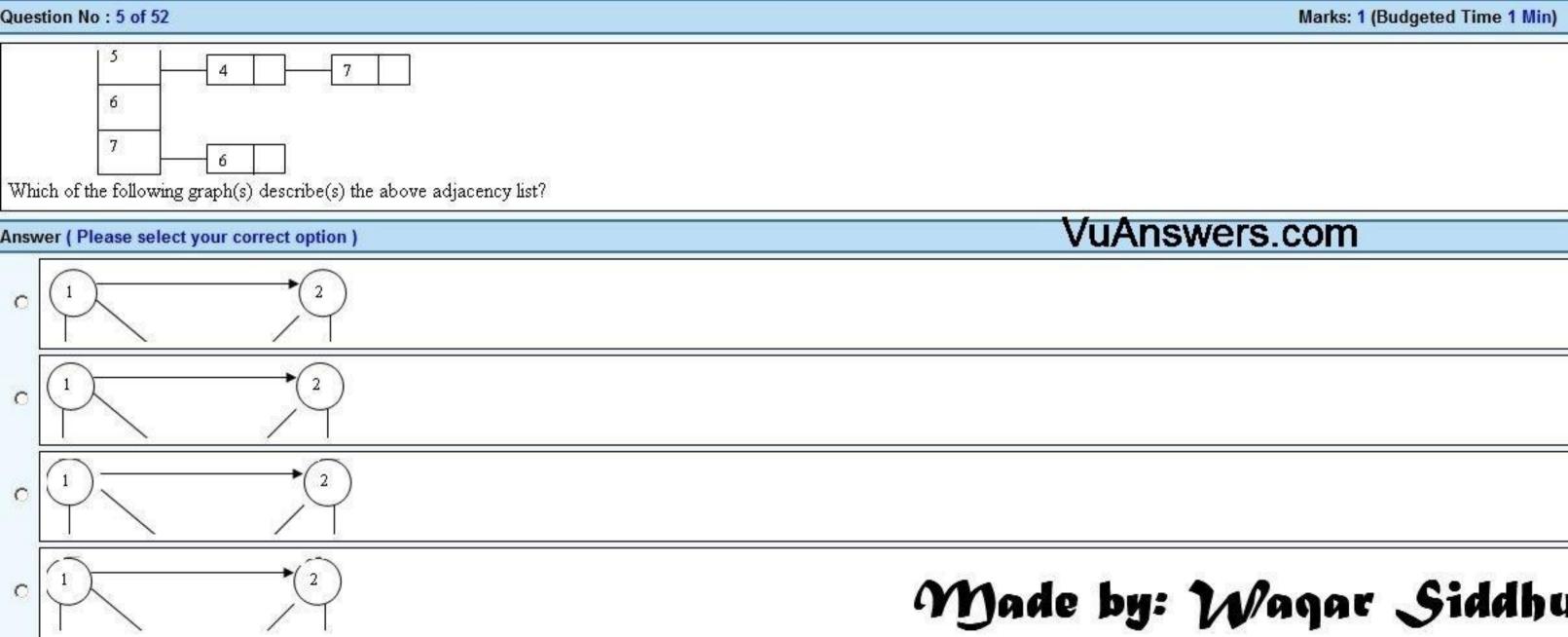
Que	stion No : 4 of 52	Marks: 1 (Budgeted Time 1 Min)
The	Huffman algorithm finds a (n) solution.	
(c)		
Ansv	wer ( Please select your correct option )	VuAnswers.com
0	Optimal	
~	cor	<u>rect</u>
С	Non-optimal	
c	Exponential	
С	Polynomial	Made by: Waqar Siddhu

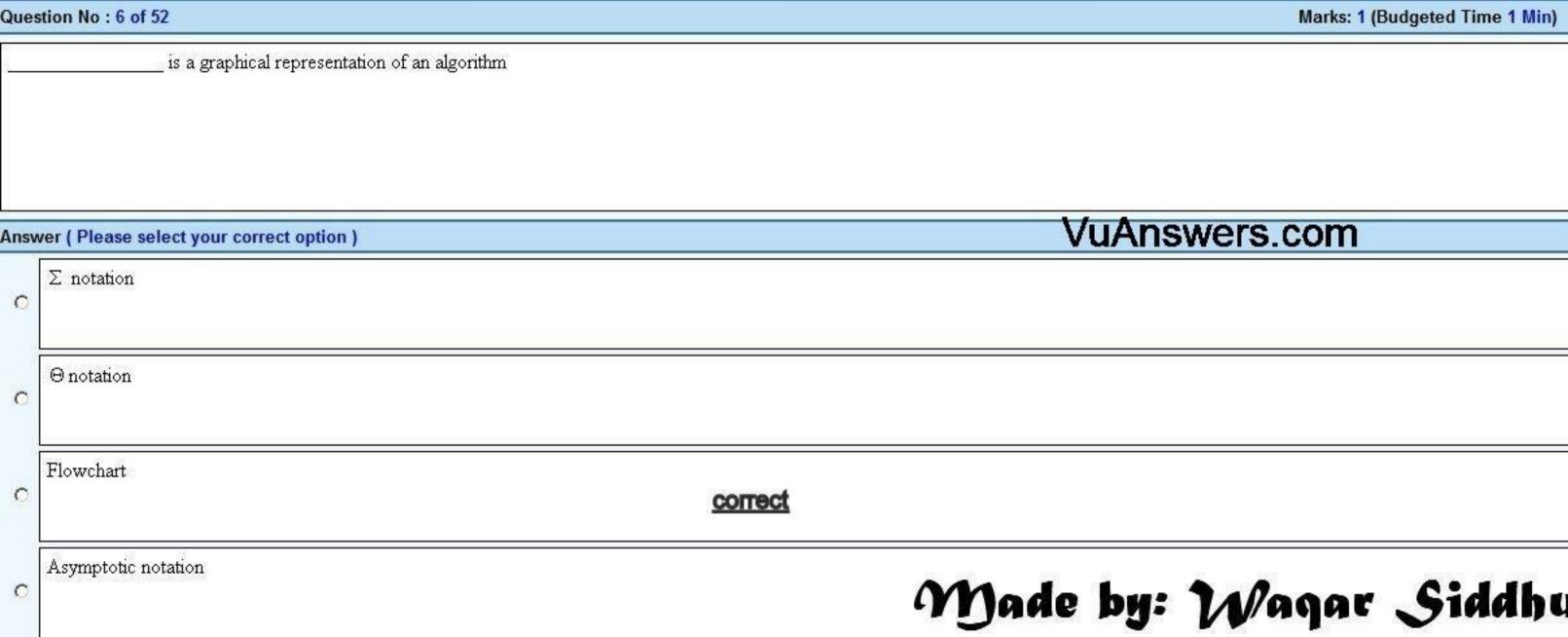












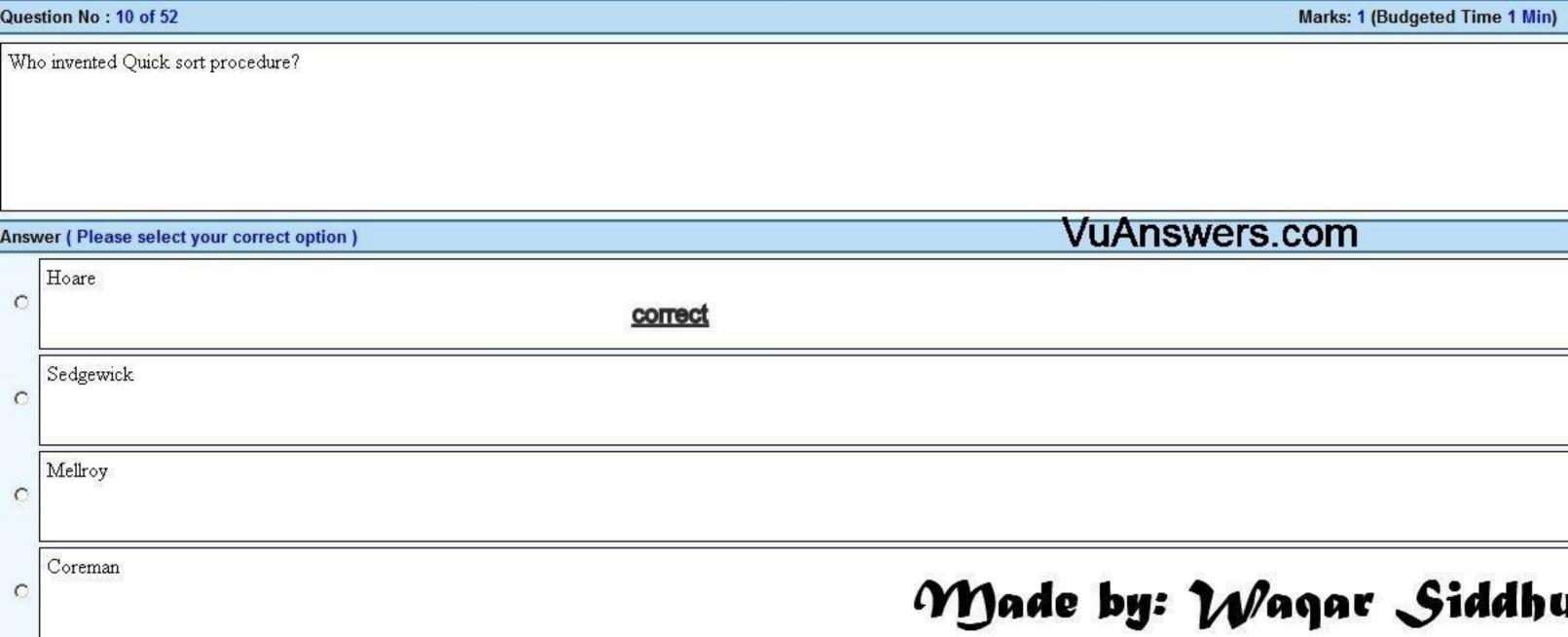
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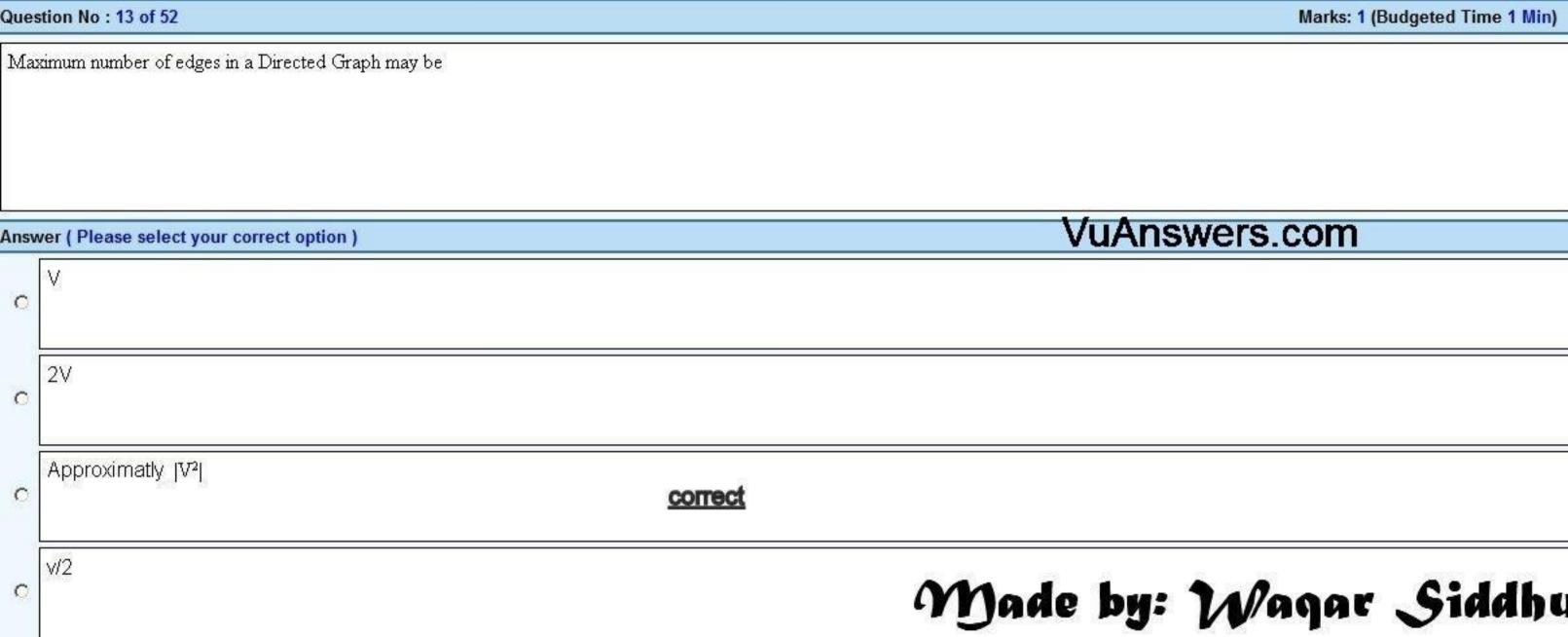
79

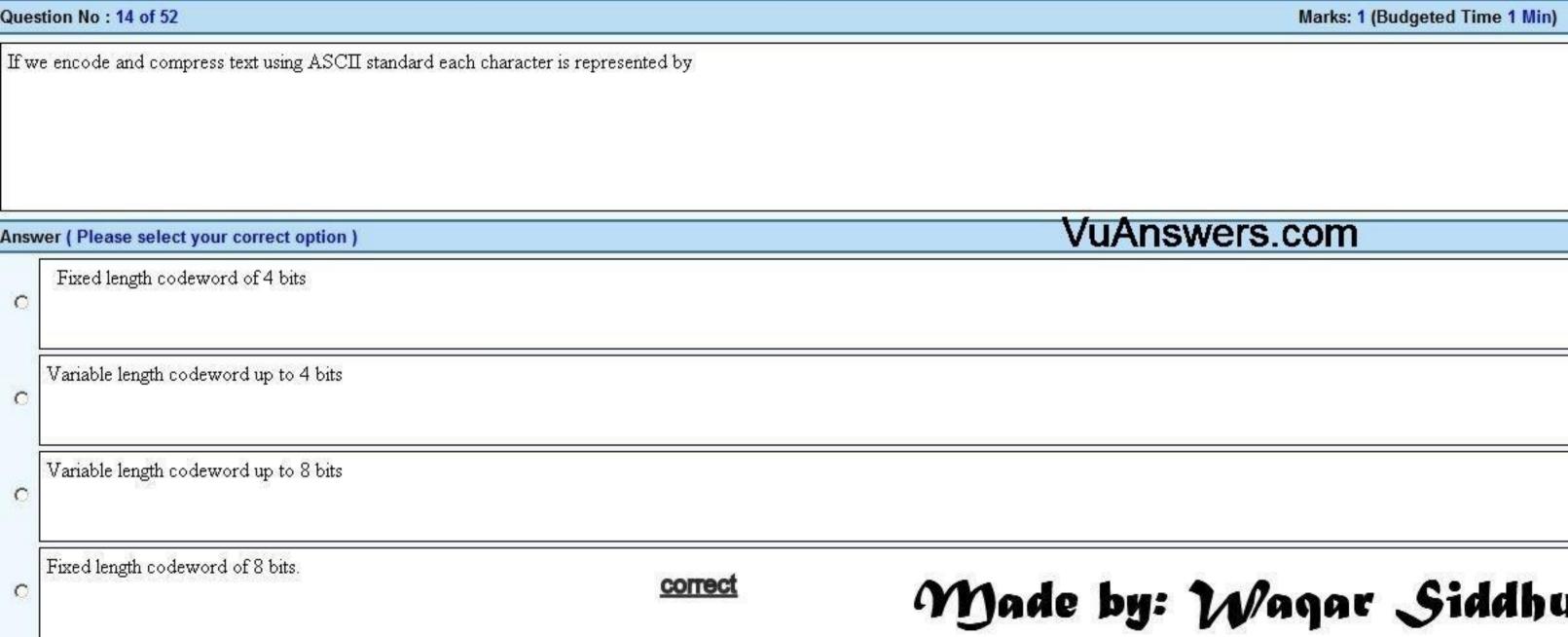
70



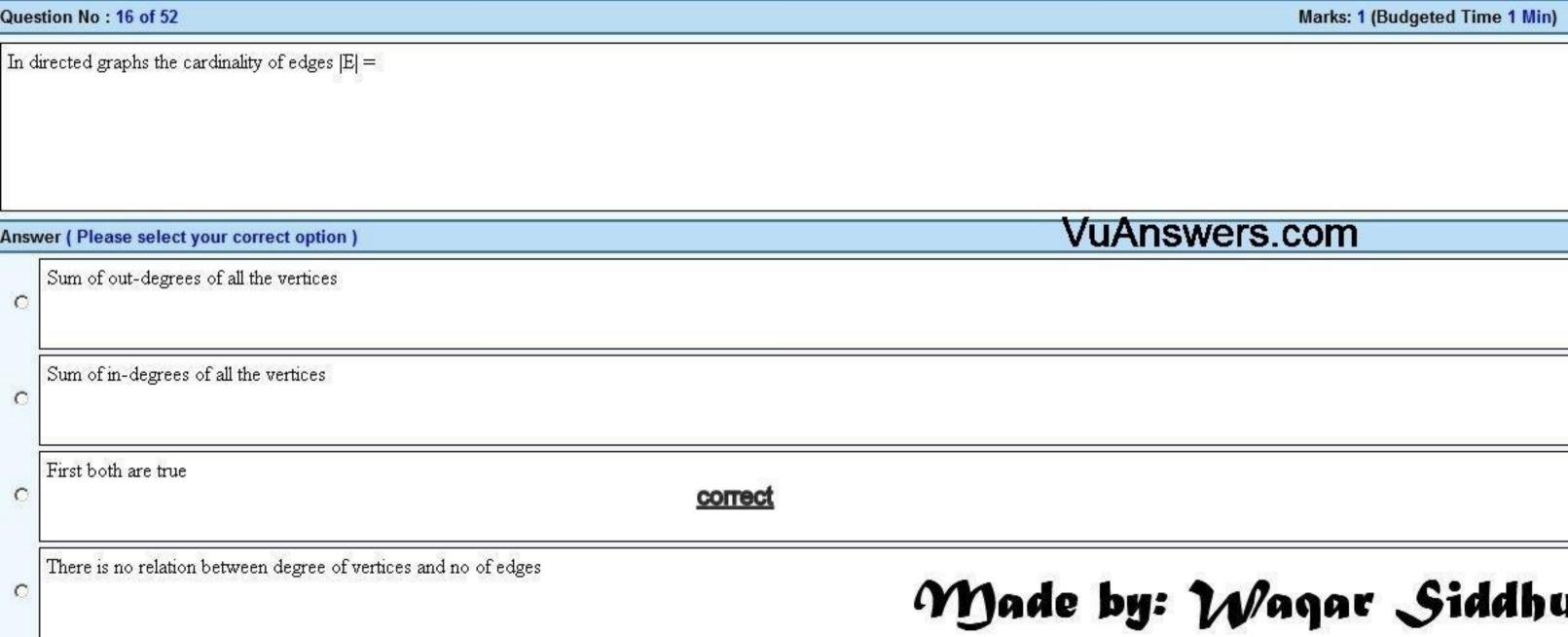


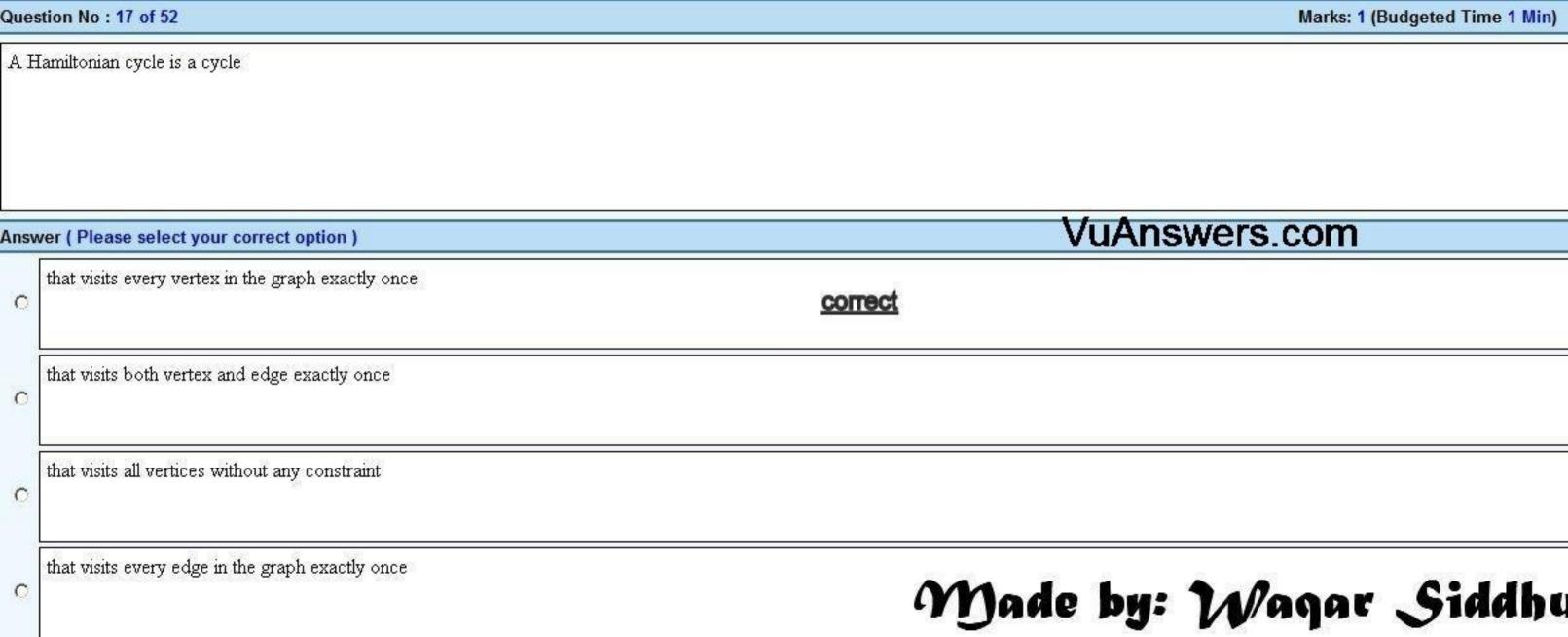
Que	stion No : 12 of 52	Marks: 1 (Budgeted Time 1 Min)
Ар	roduct of matrices is	if it is either single matrix or the product of two matrix products, surrounded by parentheses.
न्द्रों स्वा		not sure
Ansv	ver ( Please select your corre	ct option ) VuAnswers.com
c	Fully parenthesized	correct
С	Partially parenthesized	
c	Not parenthesized	
С	None of the options	Made by: Waqar Siddhu

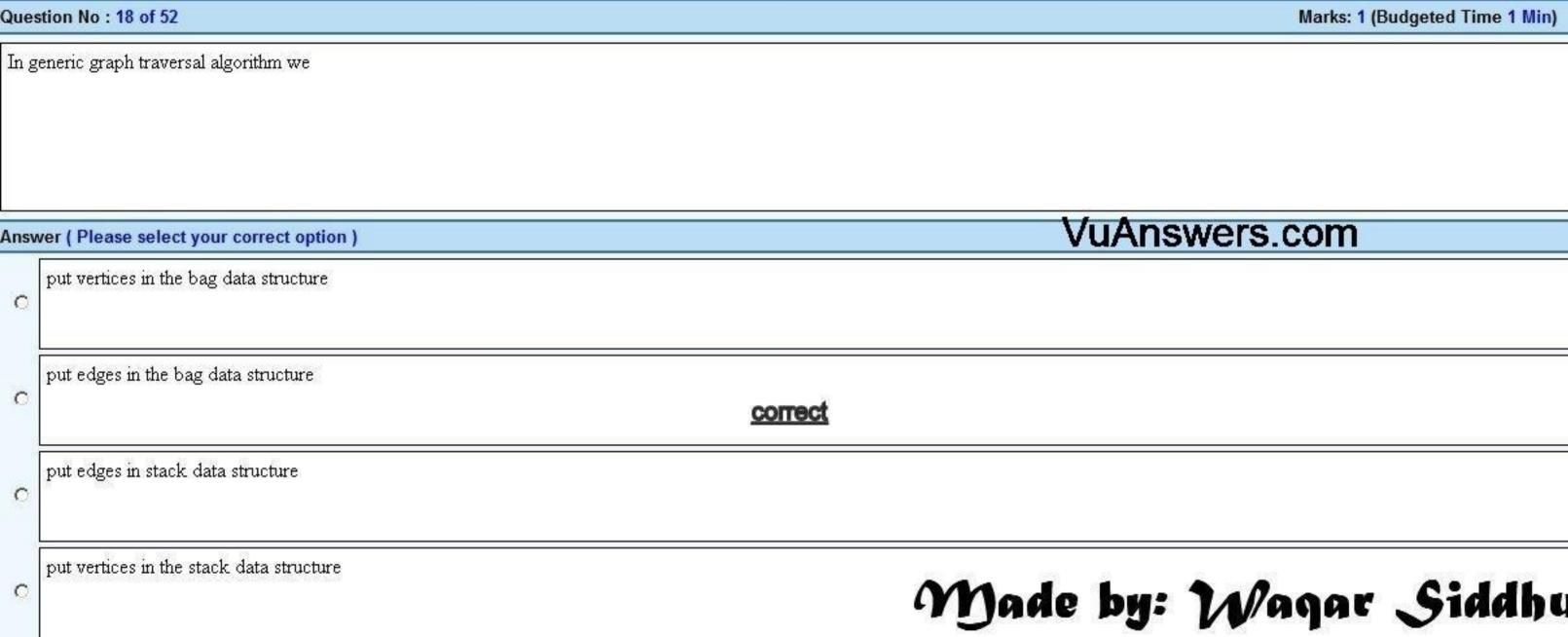


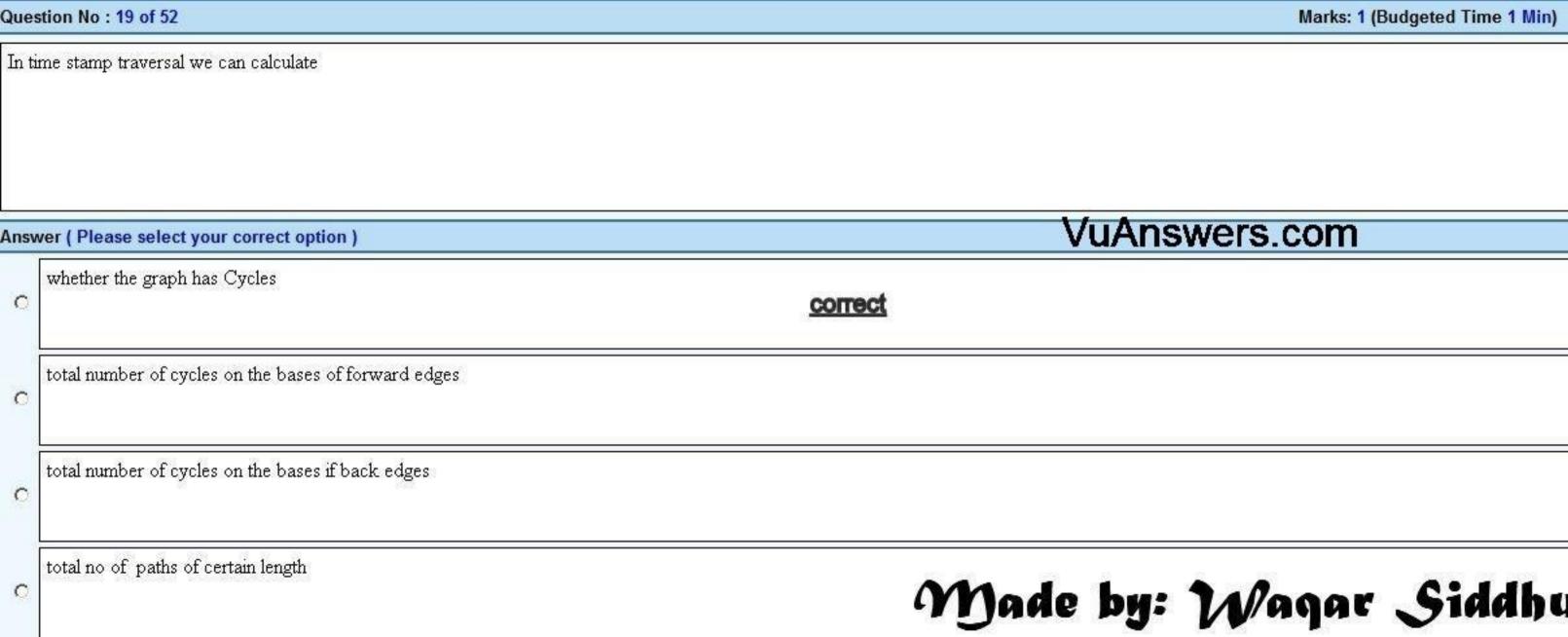


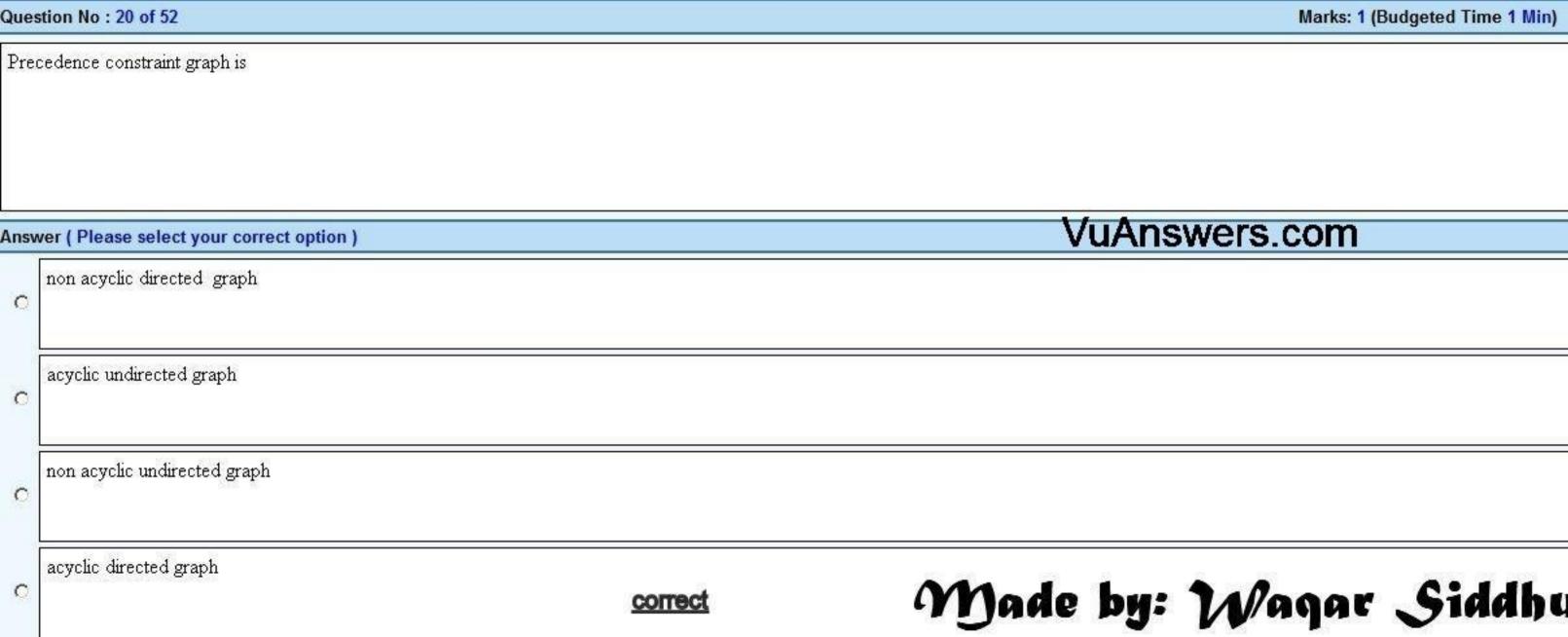






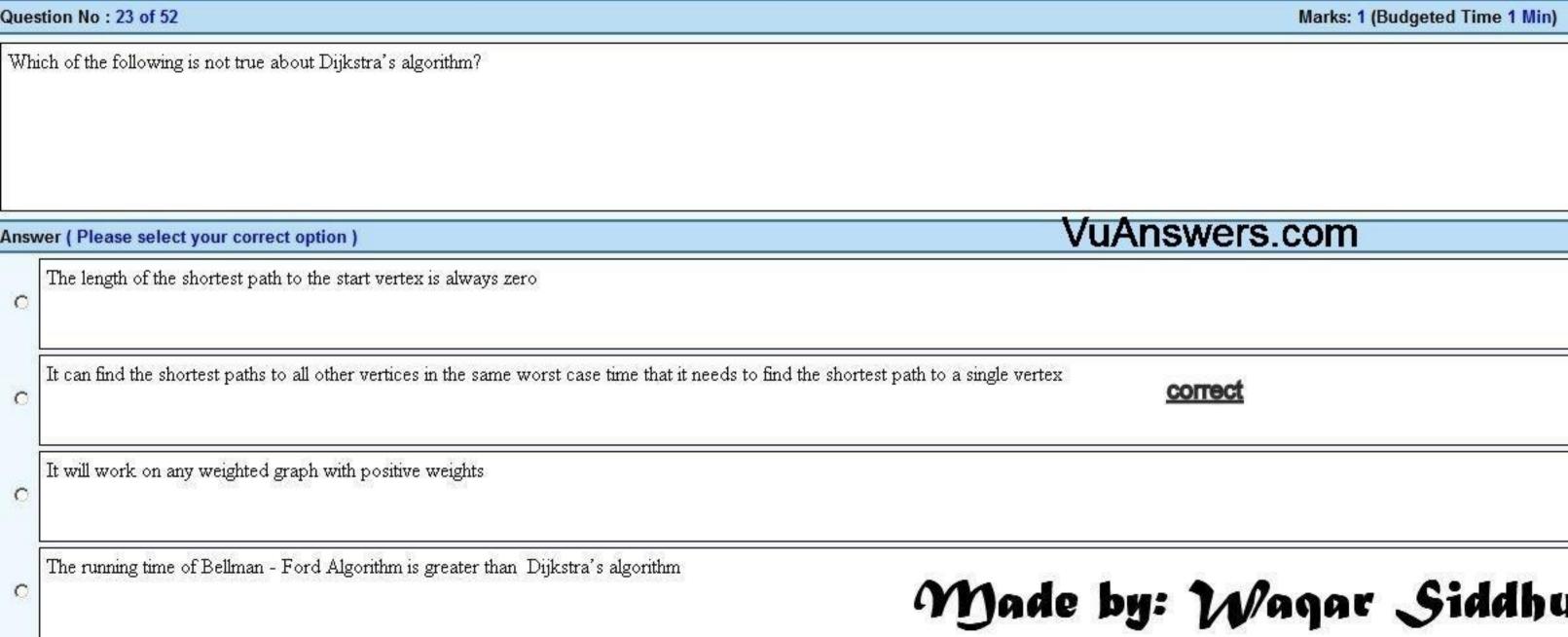


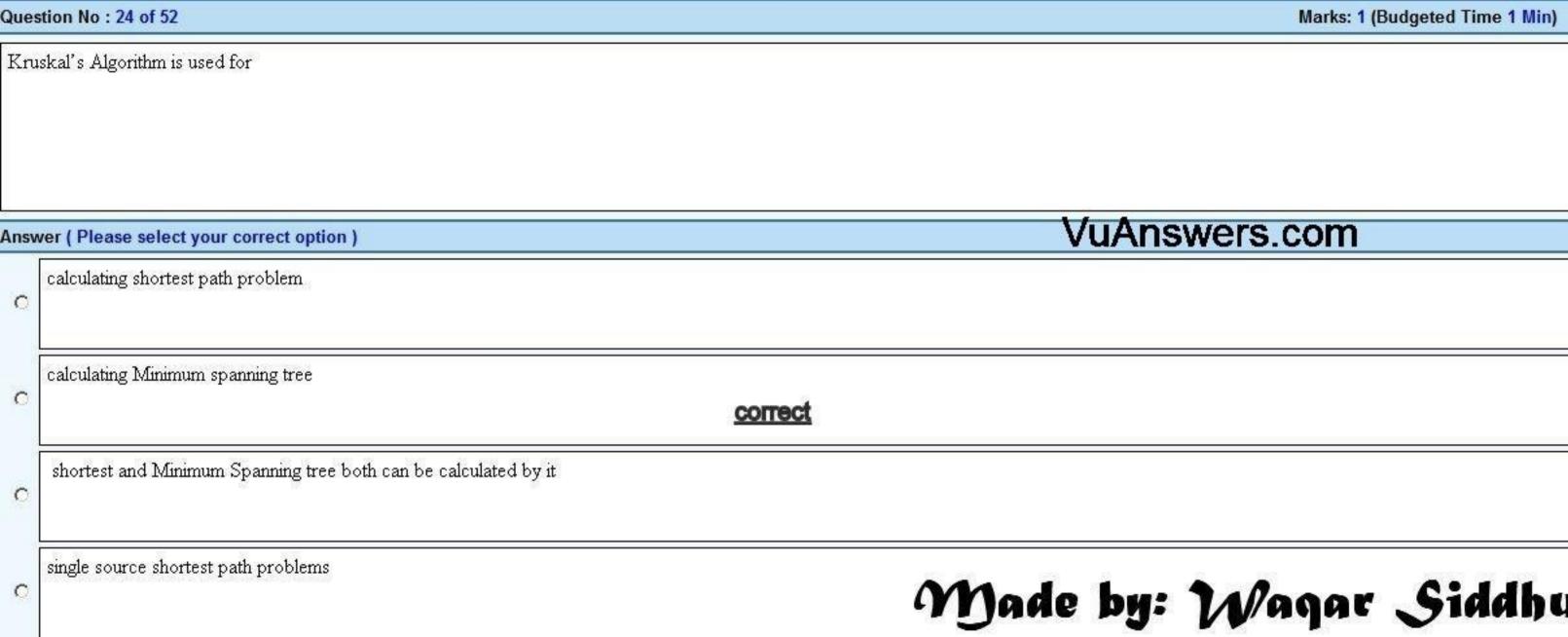


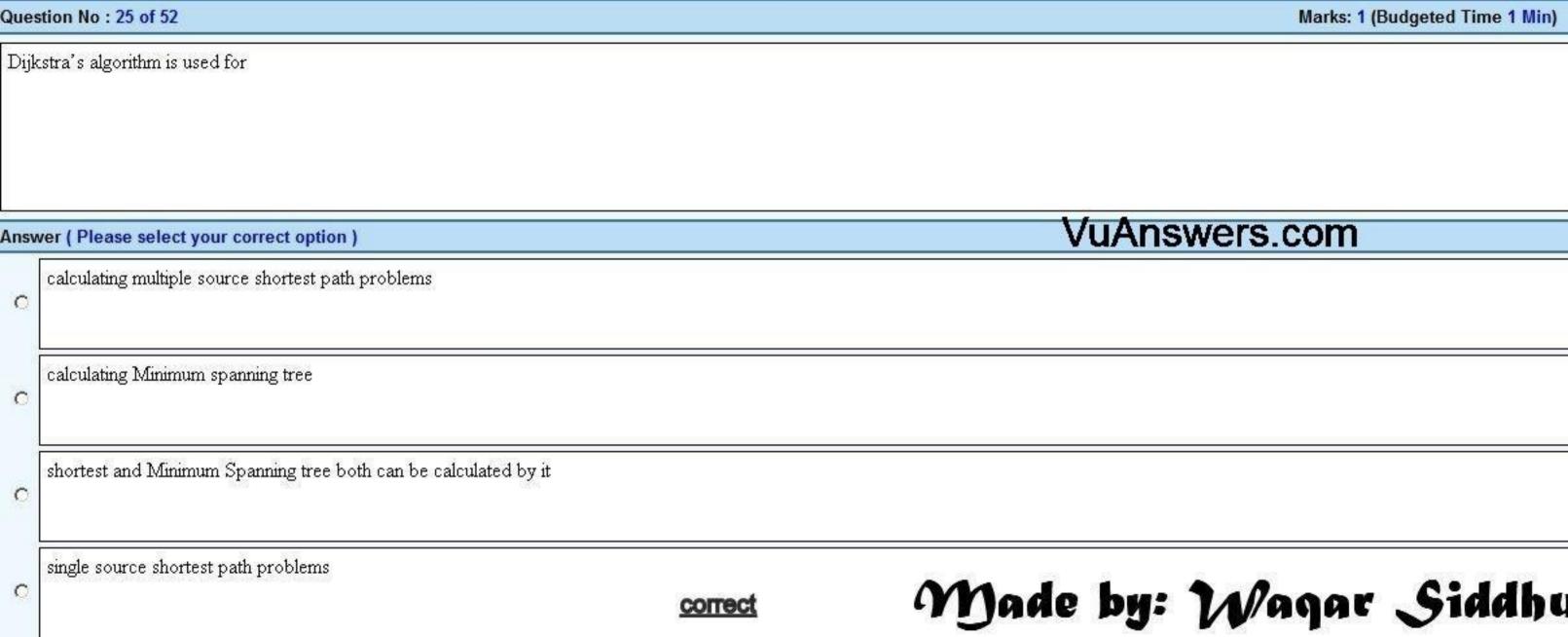


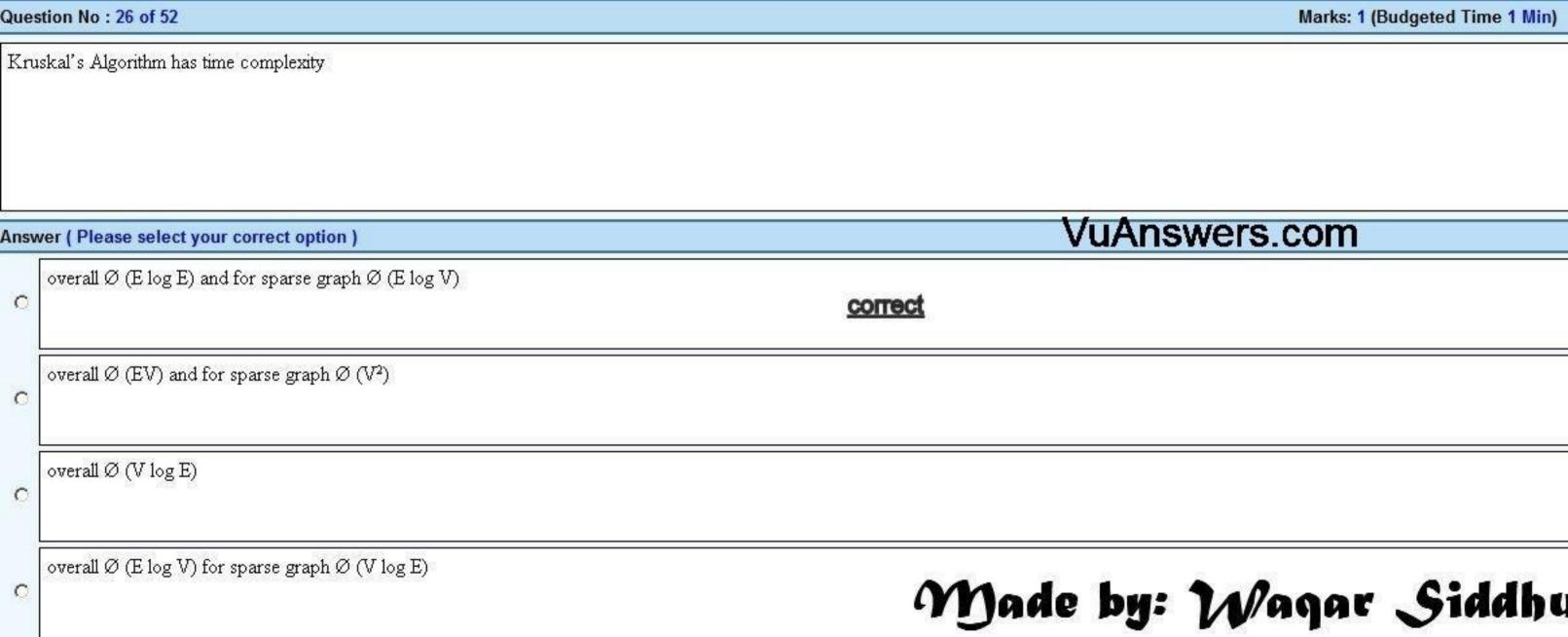


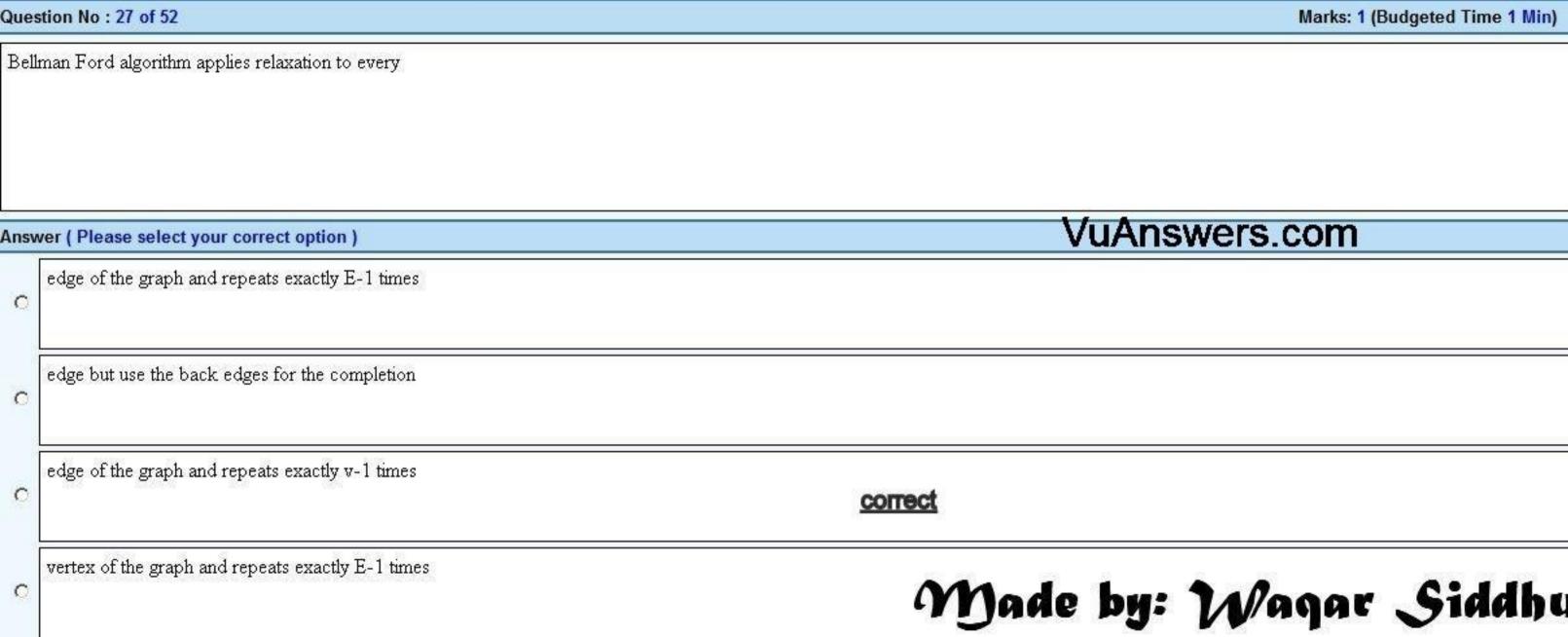


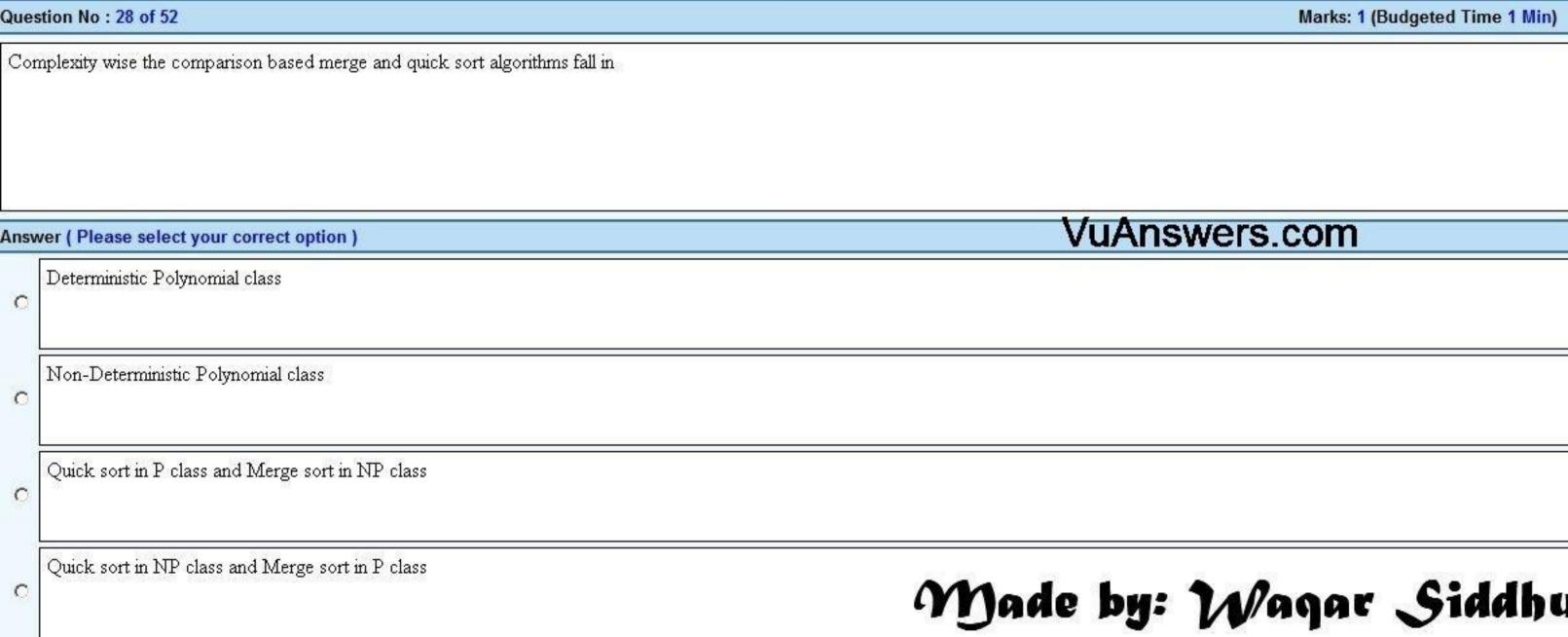


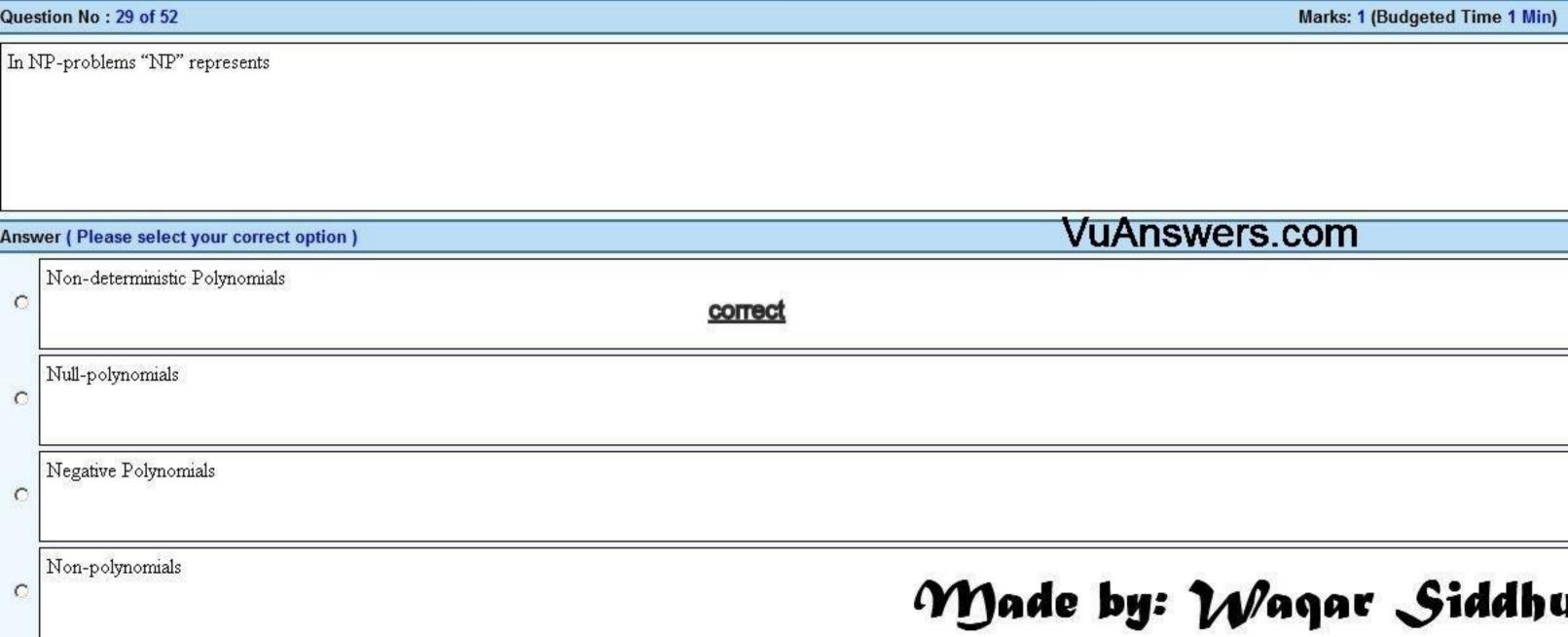




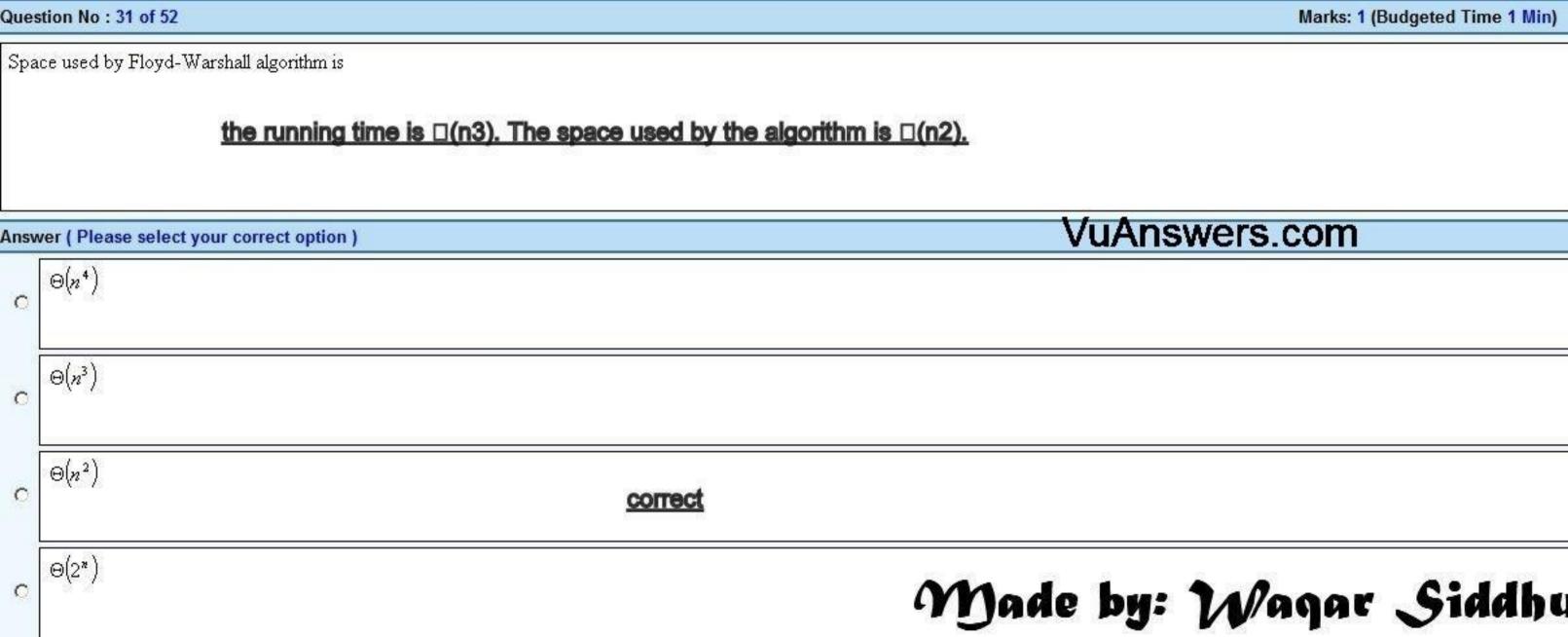




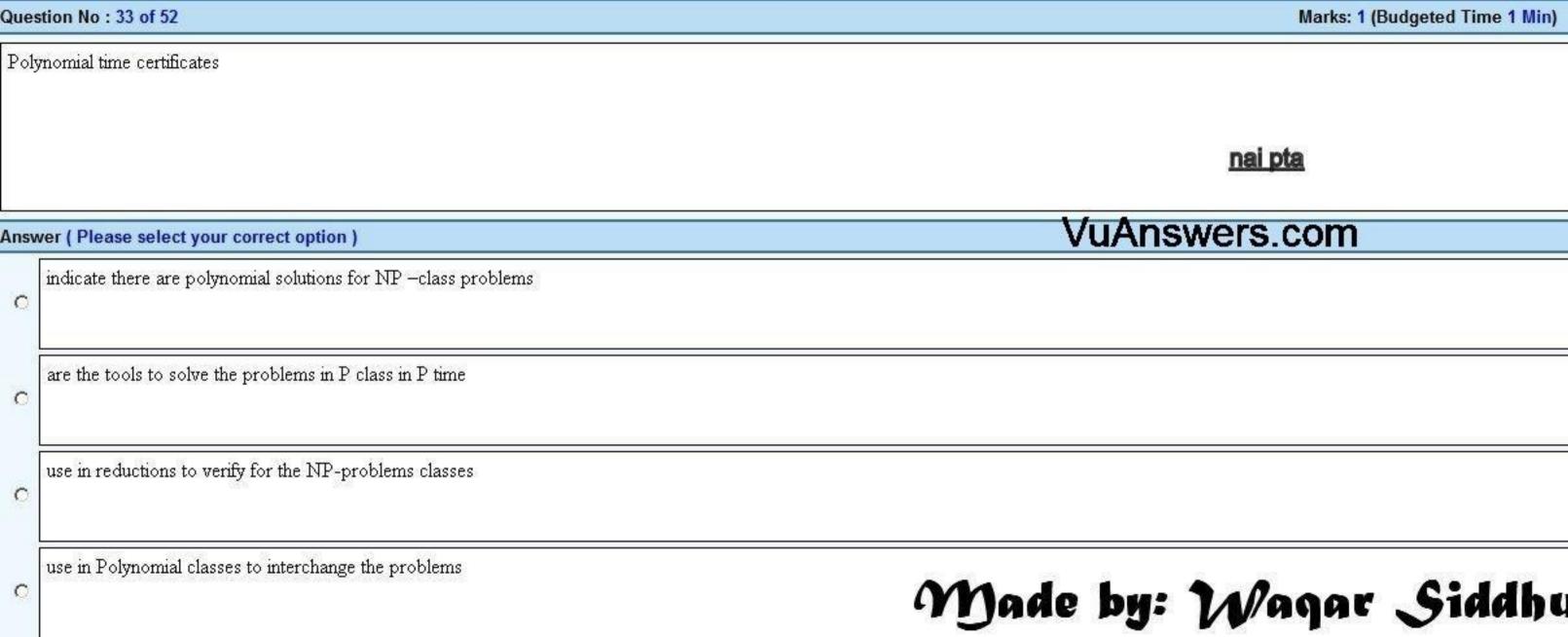


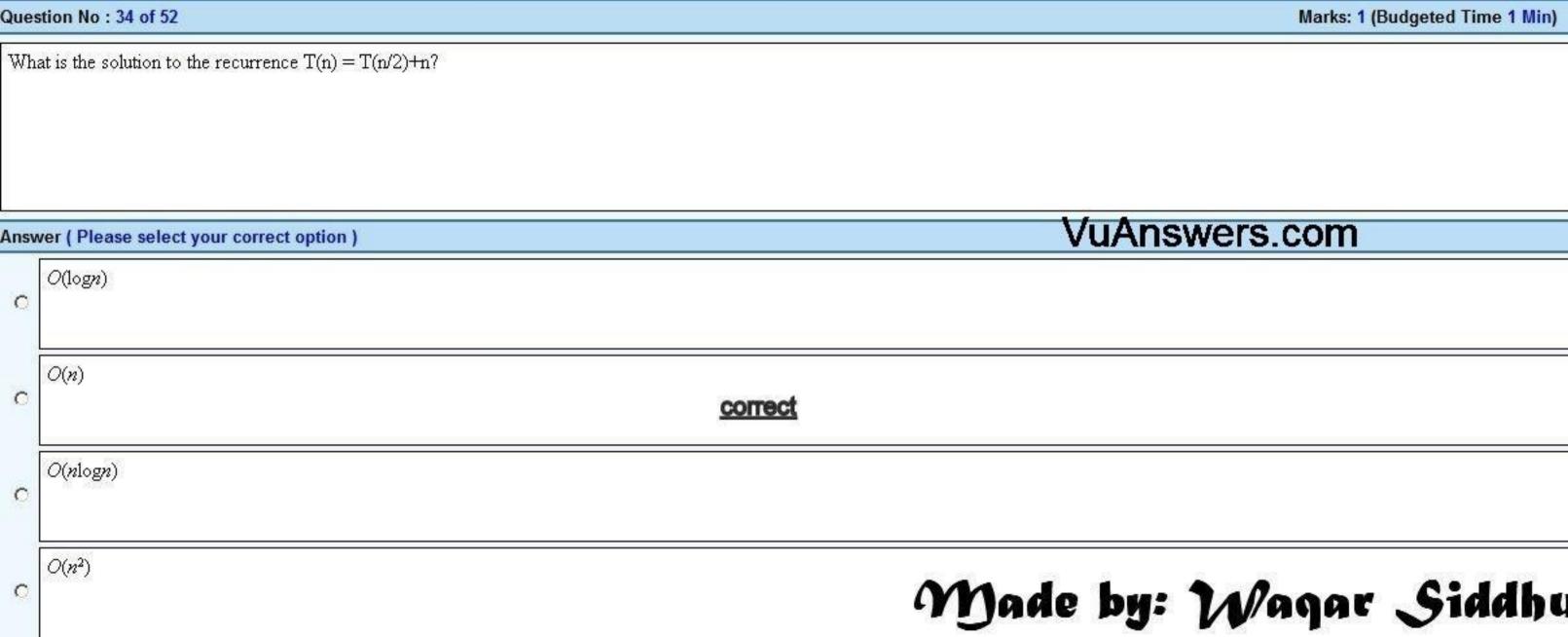


Que	stion No : 30 of 52	Marks: 1 (Budgeted Time 1 Min)
Floy	yd-Warshall algorithm dates back to the early	
Feb.		
Ansv	wer ( Please select your correct option )	VuAnswers.com
0	70's	
С	90's	
c	60's correct	
С	50's	Made by: Waqar Siddhu

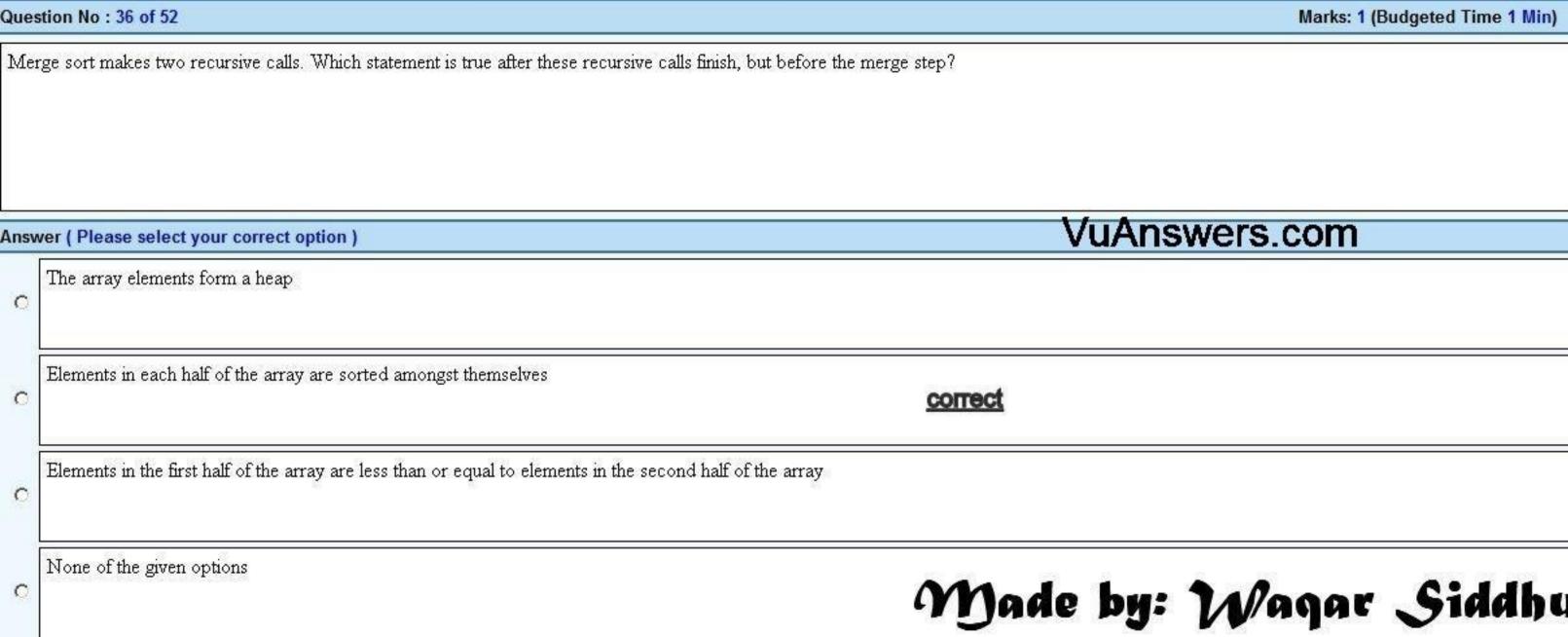


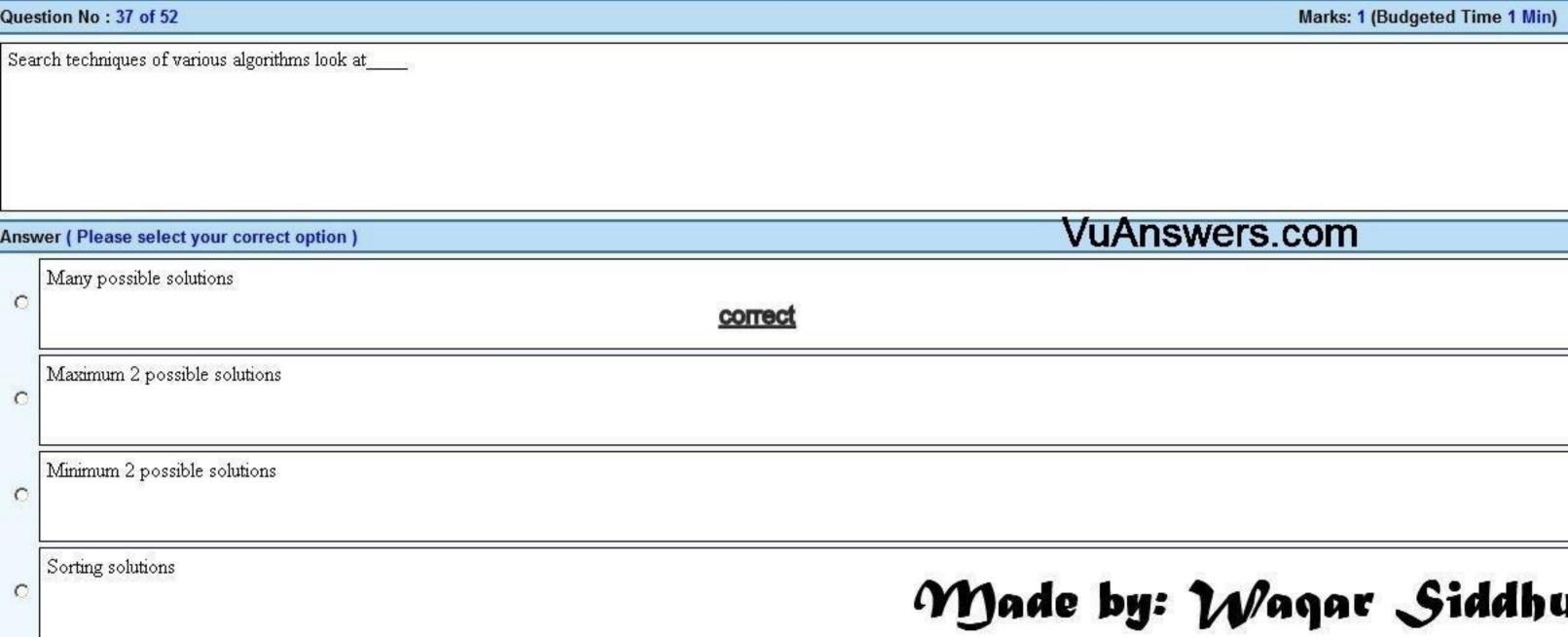
Question No: 32 of 52  In the clique cover problem, for two vertices to be in the same group, they must beeach other.		Marks: 1 (Budgeted Time 1 Min)
		_each other.
		<u>176</u>
Ansv	ver ( Please select your correct option )	VuAnswers.com
С	Apart from	
С	Far from	
c	Near to	
c	Adjacent to correct	Made by: Waqar Siddhu





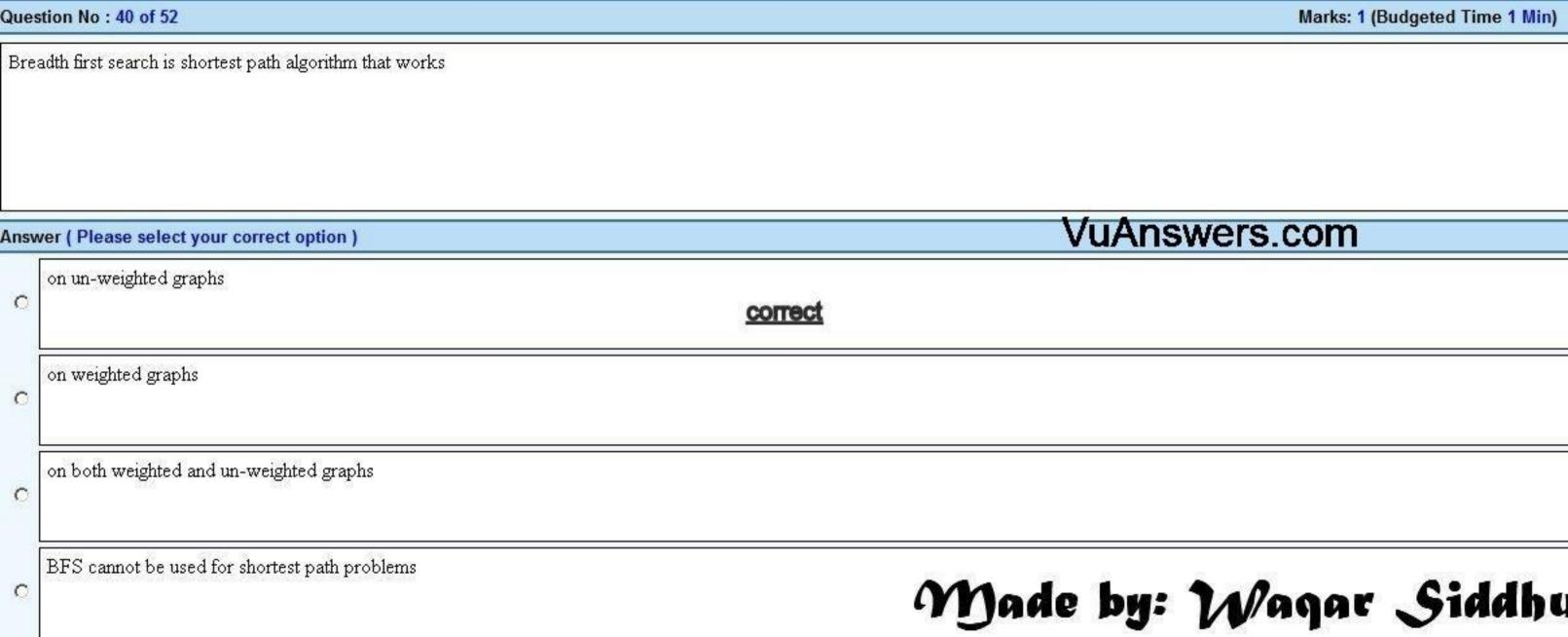


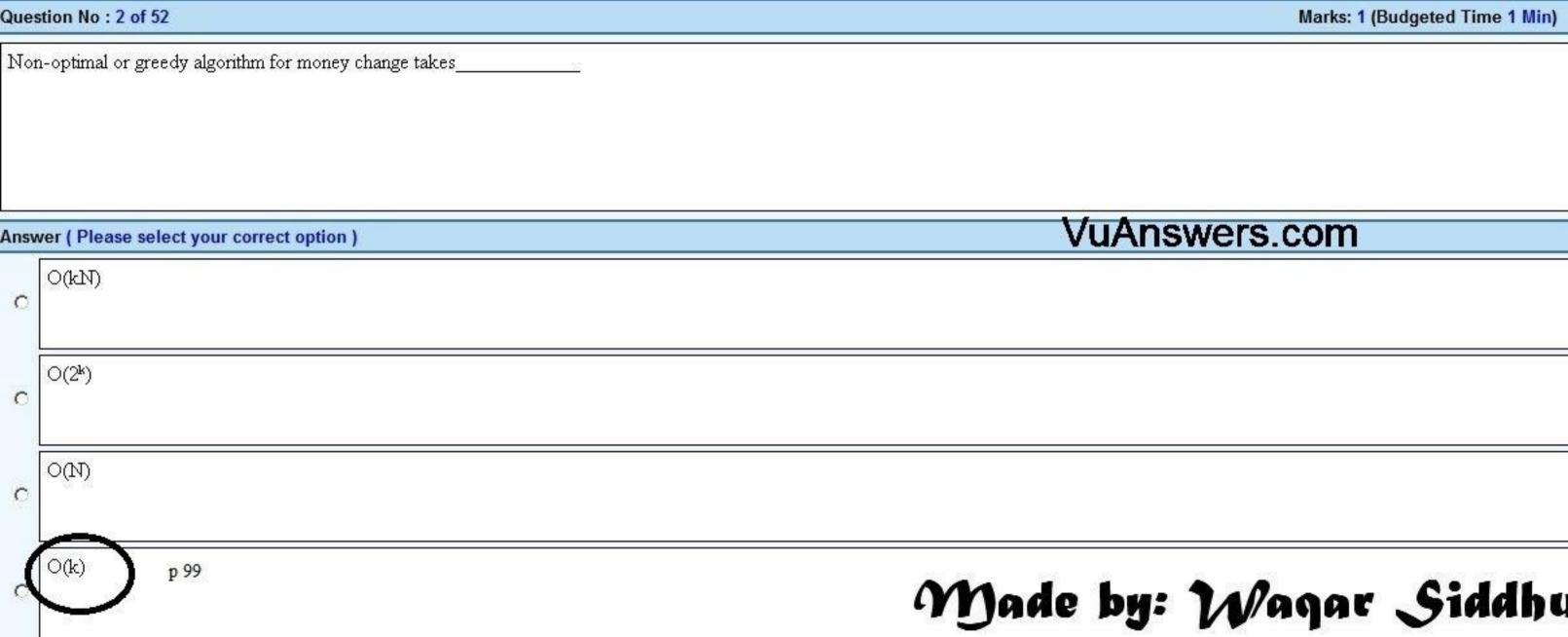




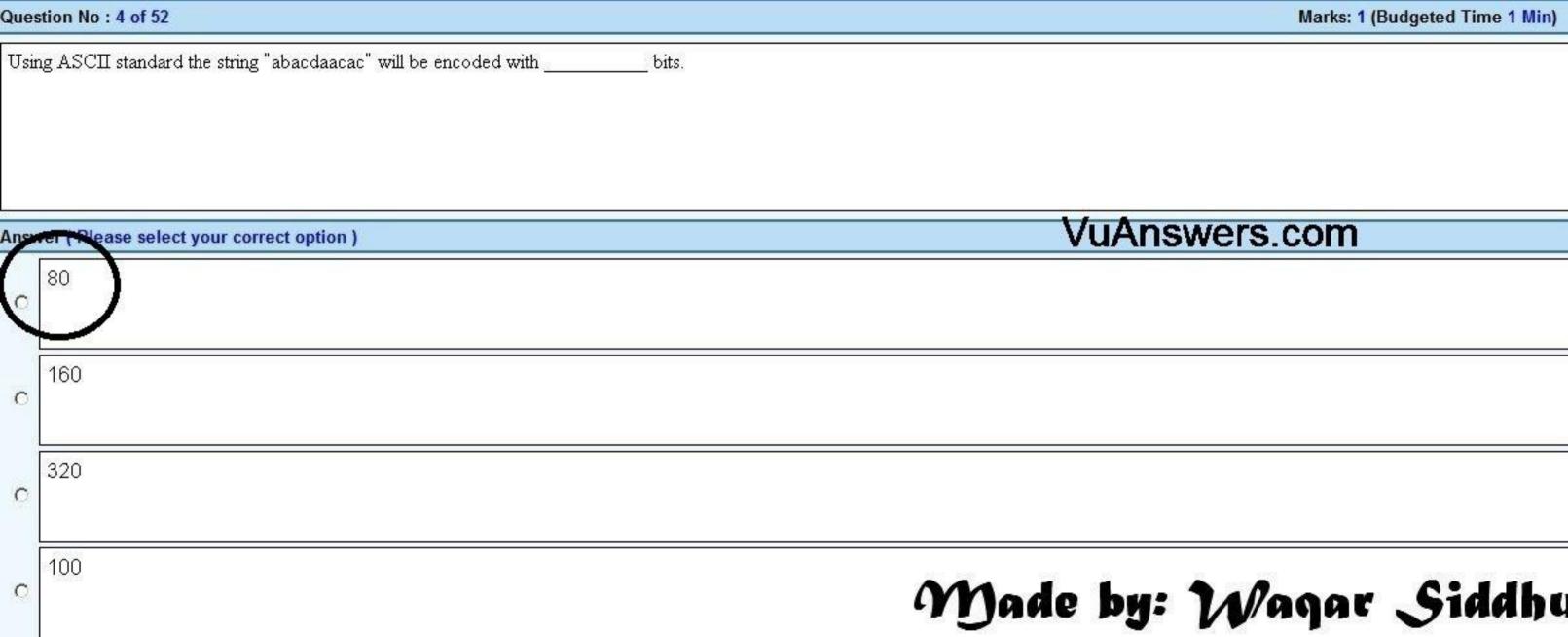
Question No : 38 of 52		Marks: 1 (Budgeted Time 1 Min)
Usi	ng ASCII standard each character is represented by a fixed length codeword of	
60		
Ansv	wer ( Please select your correct option )	VuAnswers.com
0	9 bits	
С	16 bits	
c	8 bits correct	
С	32 bits	Made by: Waqar Siddhu

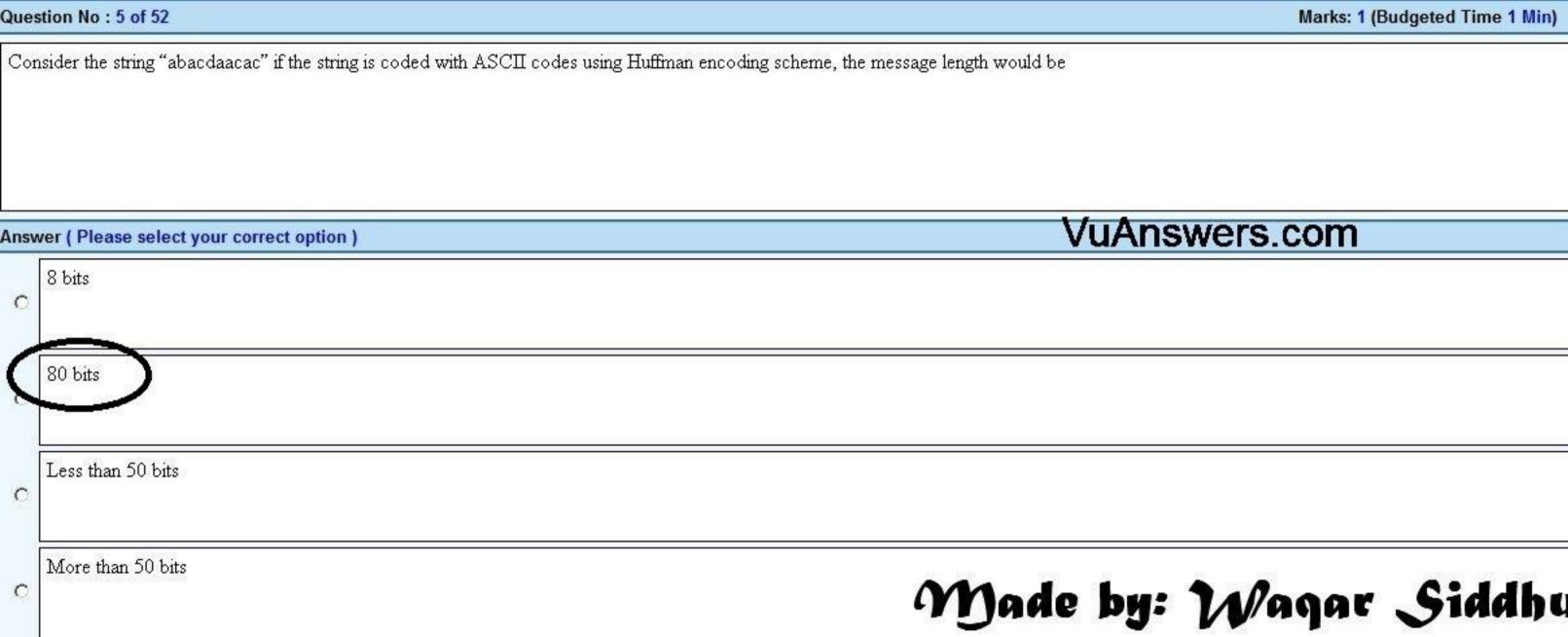
Question No : 39 of 52		Marks: 1 (Budgeted Time 1 Min)
The	e Huffman encoding algorithm is a	
Ansv	wer ( Please select your correct option )	VuAnswers.com
c	Dynamic and greedy algorithm	
c	Divide and conquer and greedy algorithm	
C	Geedy algorithm.	<b>x</b>
c	Dynamic programming algorithm	Made by: Waqar Siddhu

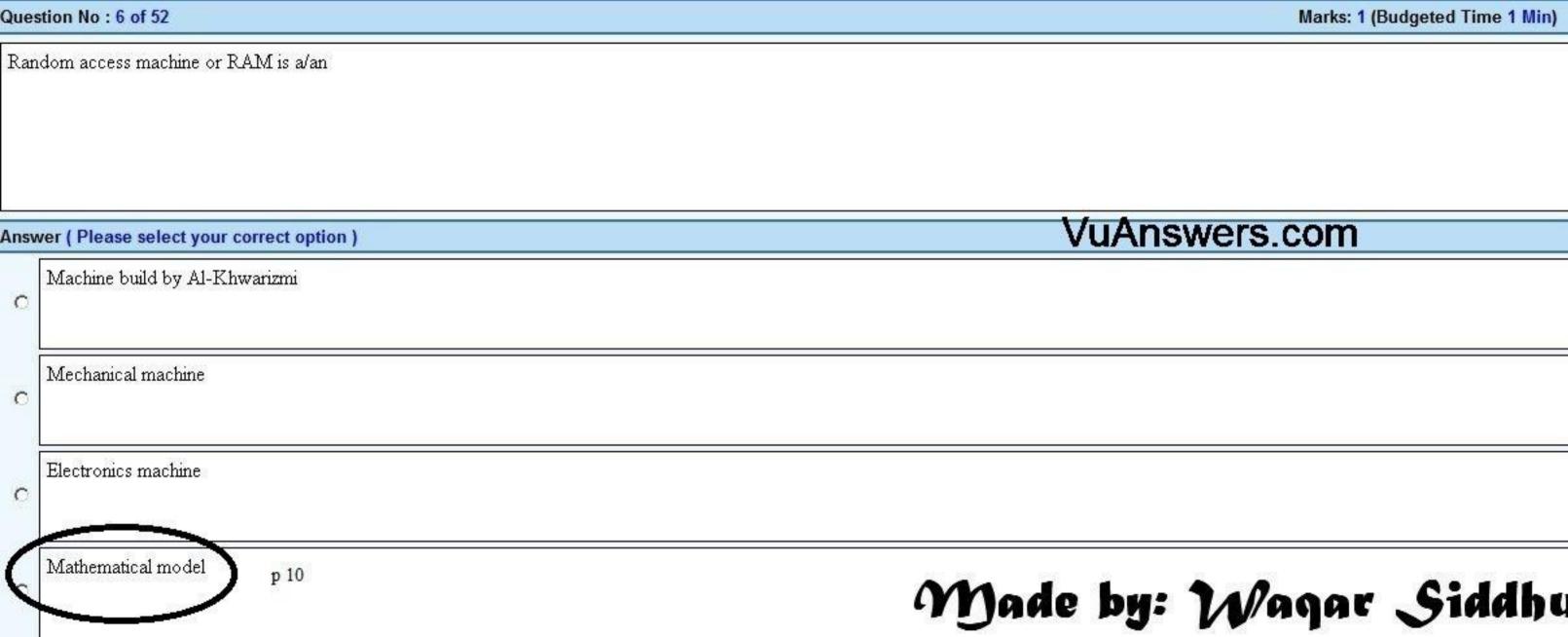


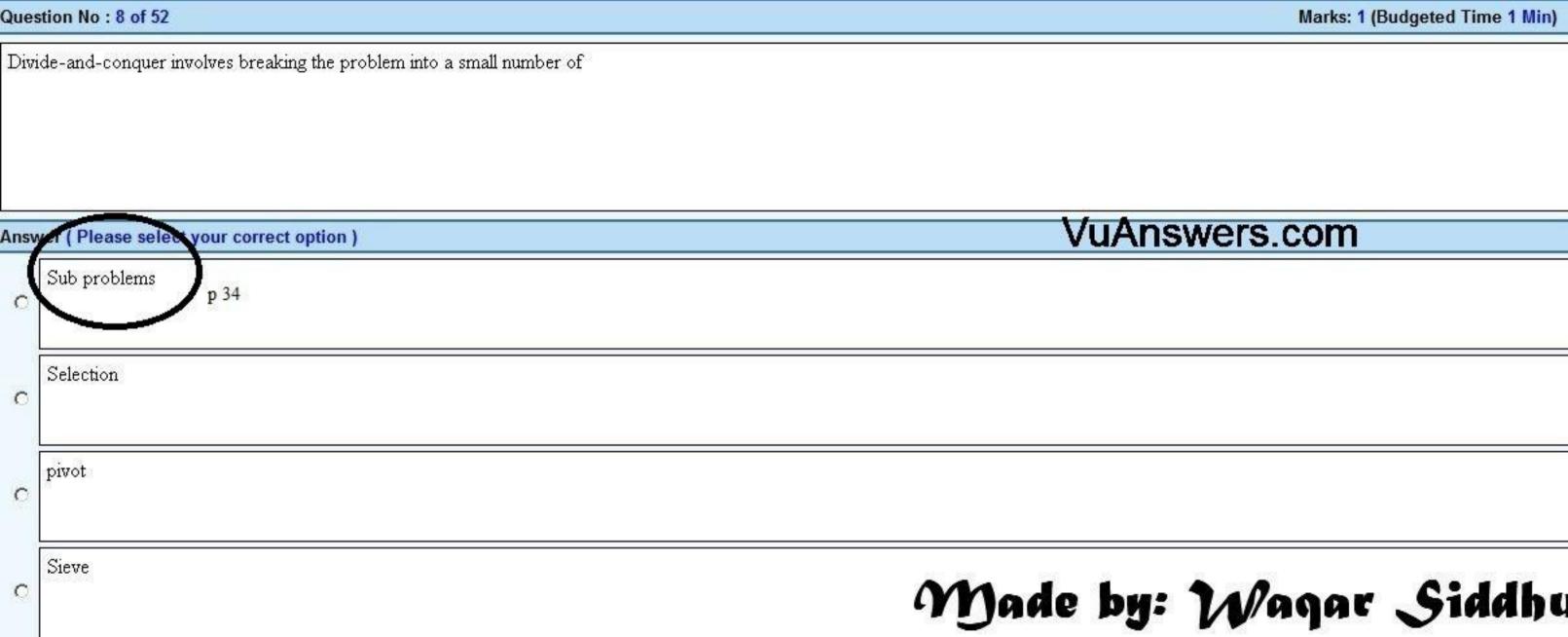


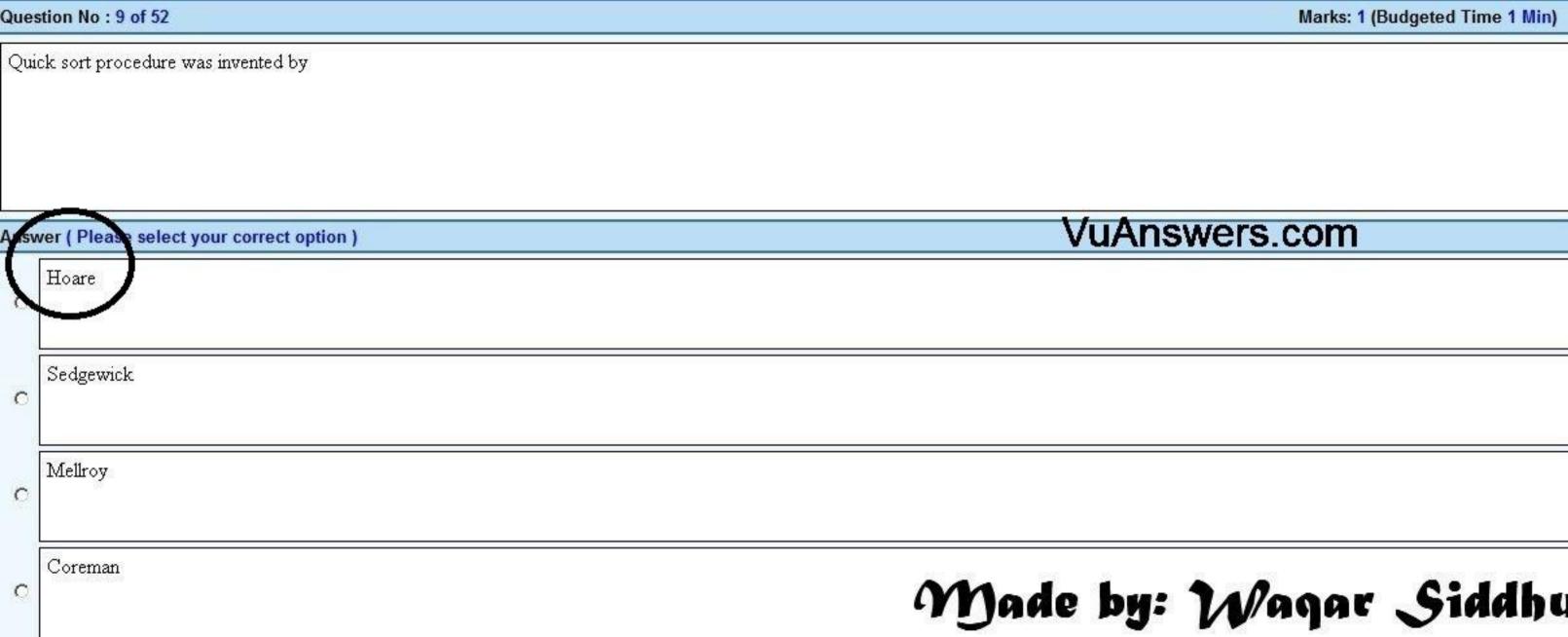
Question No : 3 of 52	Marks: 1 (Budgeted Time 1 Min)
The Huffman algorithm finds a (n) solution.	
Answer ( Please select your correct option )	VuAnswers.com
Optimal	
Non-optimal Non-optimal	
Exponential C	
Polynomial	Made by: Waqar Siddhu

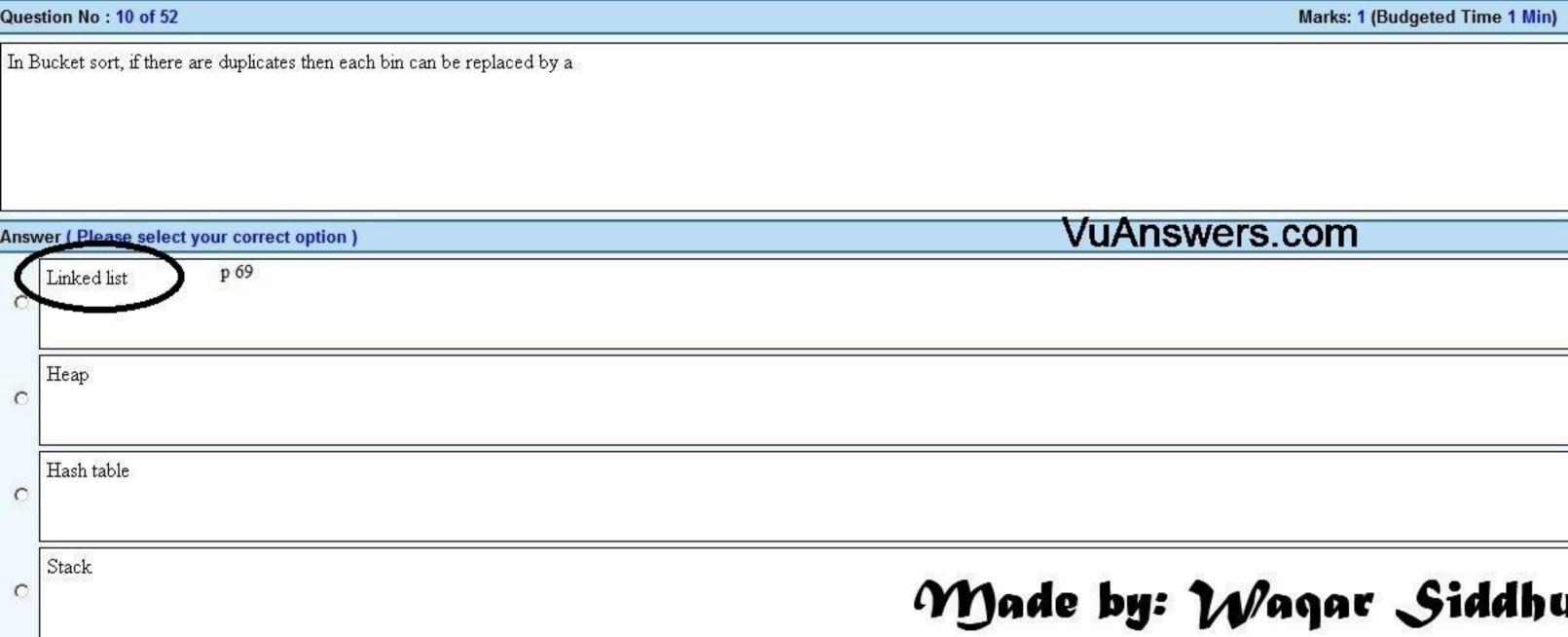












Question No : 11 of 52		Marks: 1 (Budgeted Time 1 Min)
In i	n-place sorting algorithm is one that uses no an	rays for storage.
Ansv	wer ( Please select your correct option )	VuAnswers.com
c	two dimensional	
0	three dimensional	
c	n dimensional	
(	additional	Maqar Siddhu

## Answer ( Please colect your correct option )

VuAnswers.com

 $\mathbf{C}\left[\mathbf{i},\mathbf{j}\right] = \sum A[i,k]B[k,j]$ 

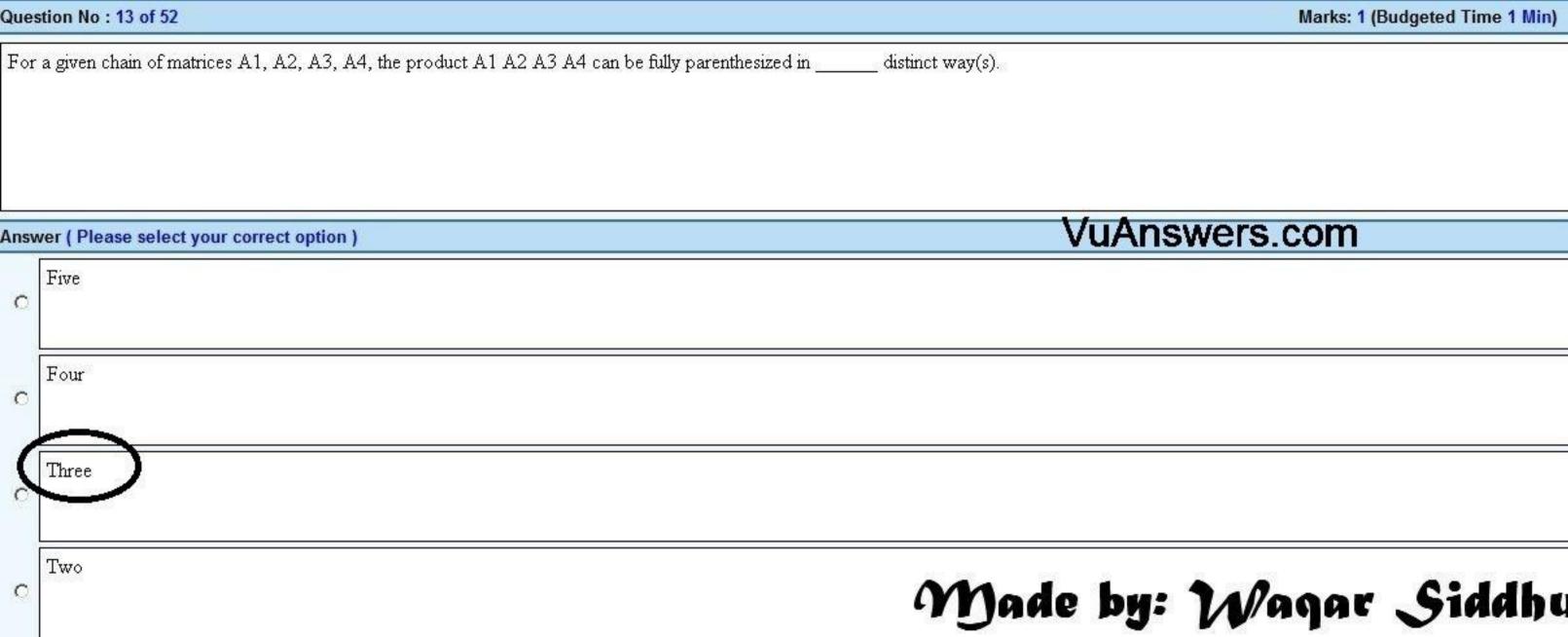
p 84

 $C[i,j] = \sum A[k,i]B[k,j]$ 

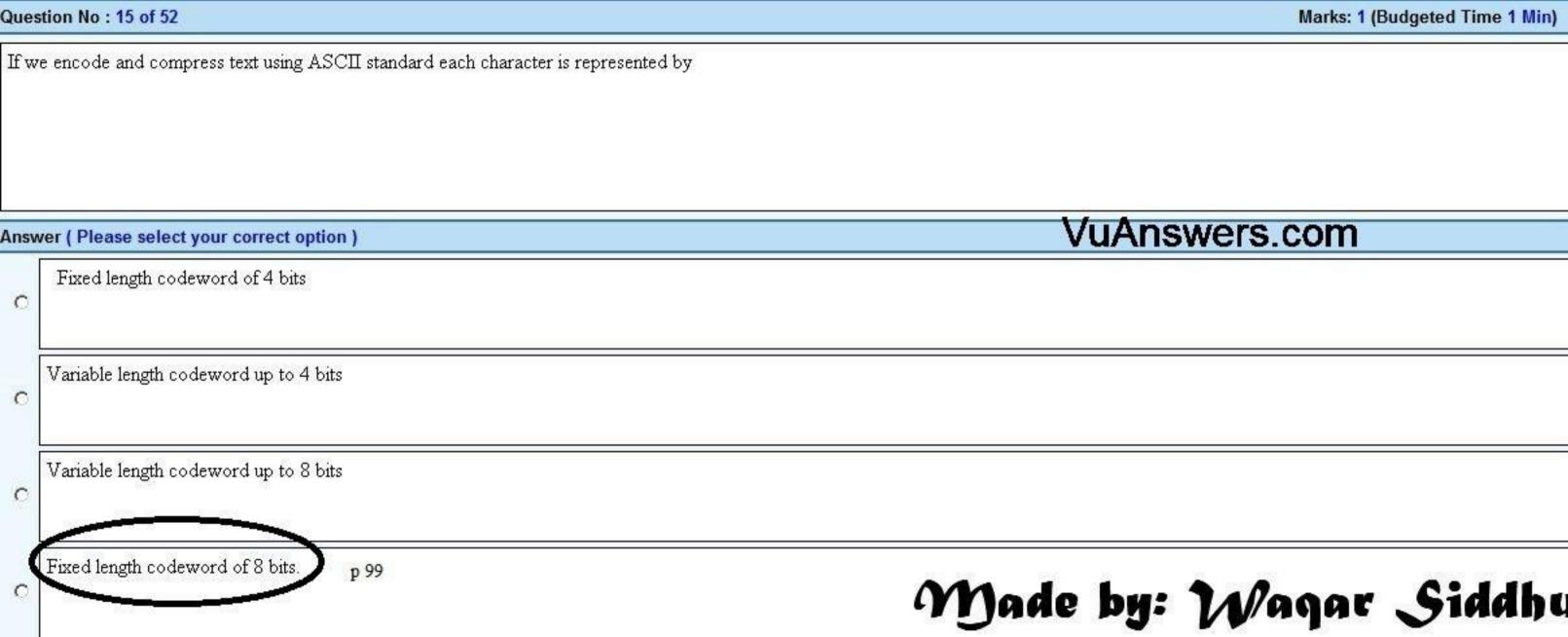
 $C[i,j] = \sum_{k=1}^{\infty} A[k,i]B[j,k]$ 

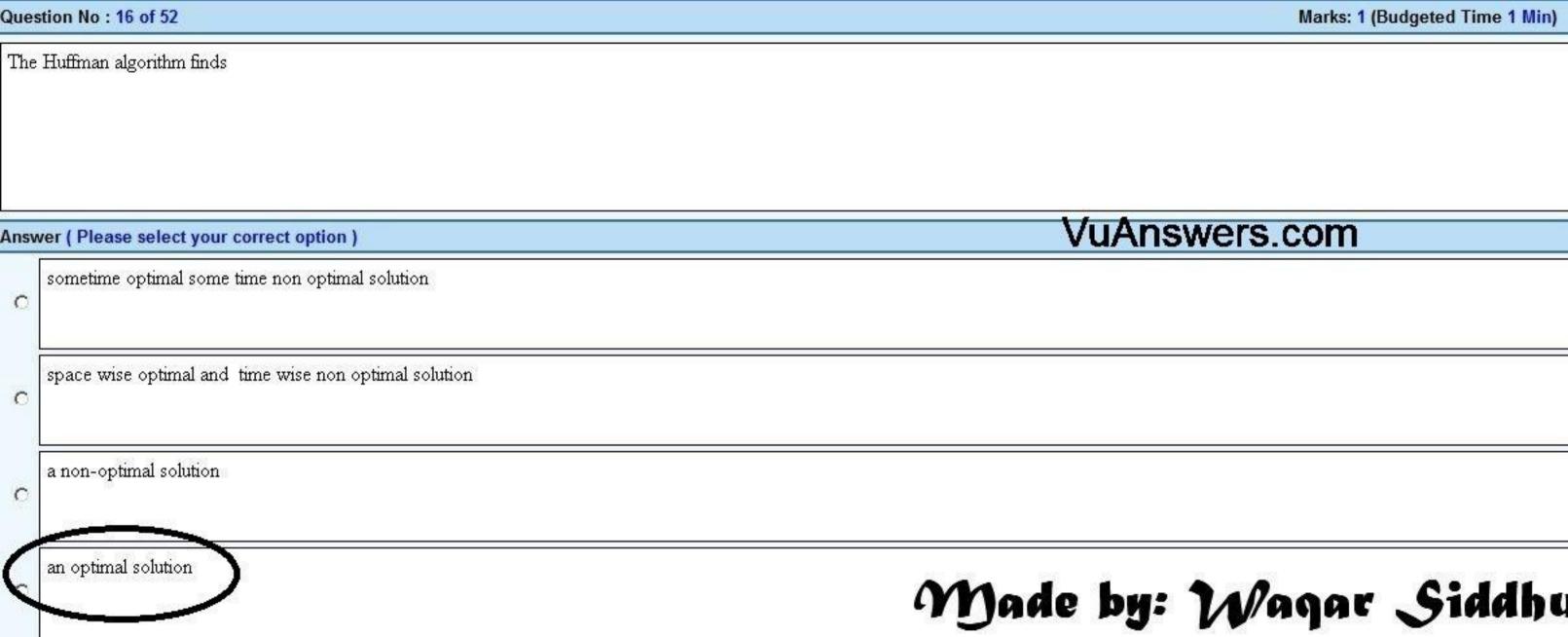
None of these

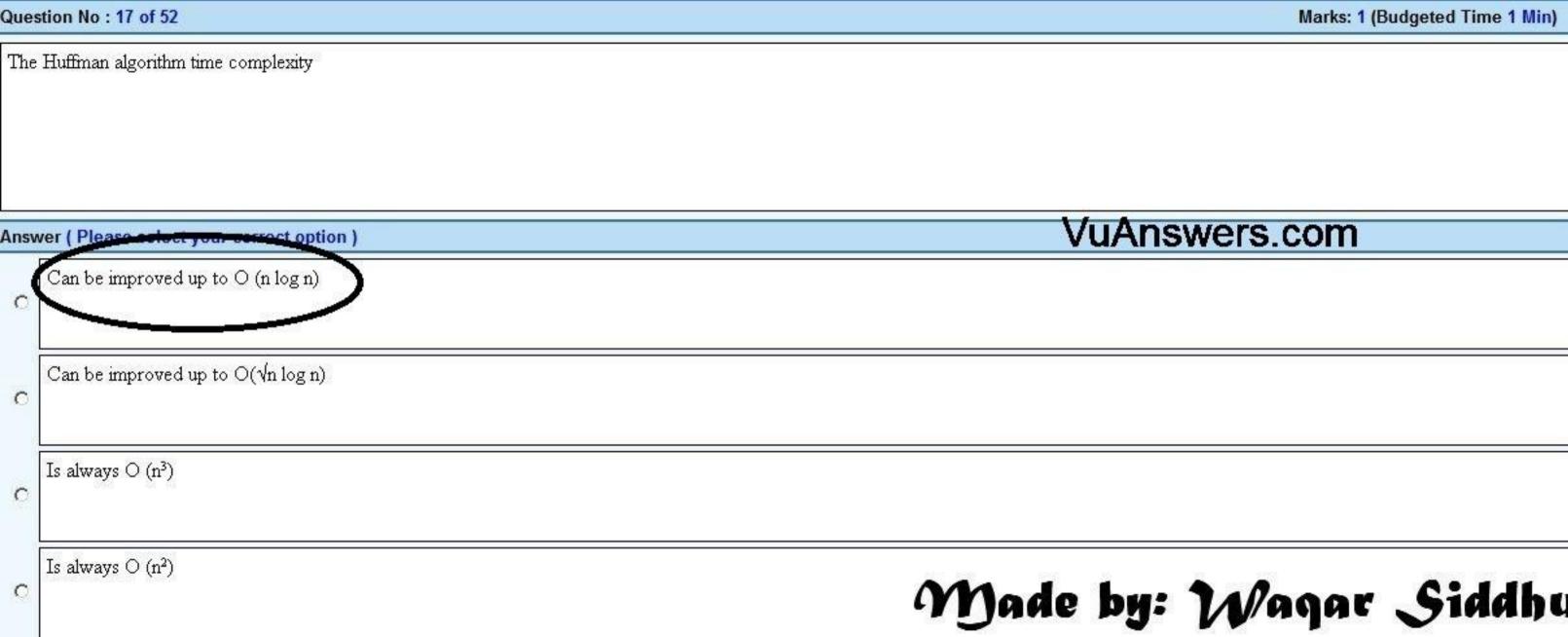
Made by: Wagar Siddhu

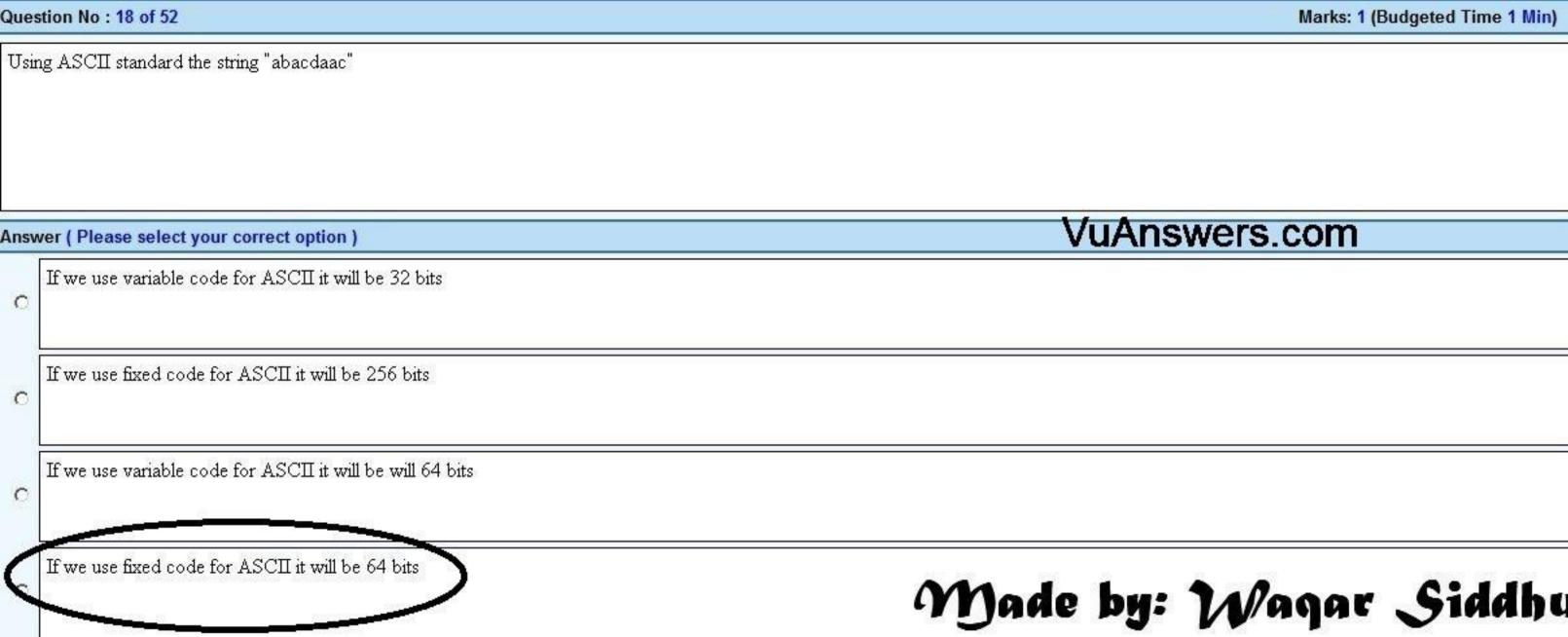






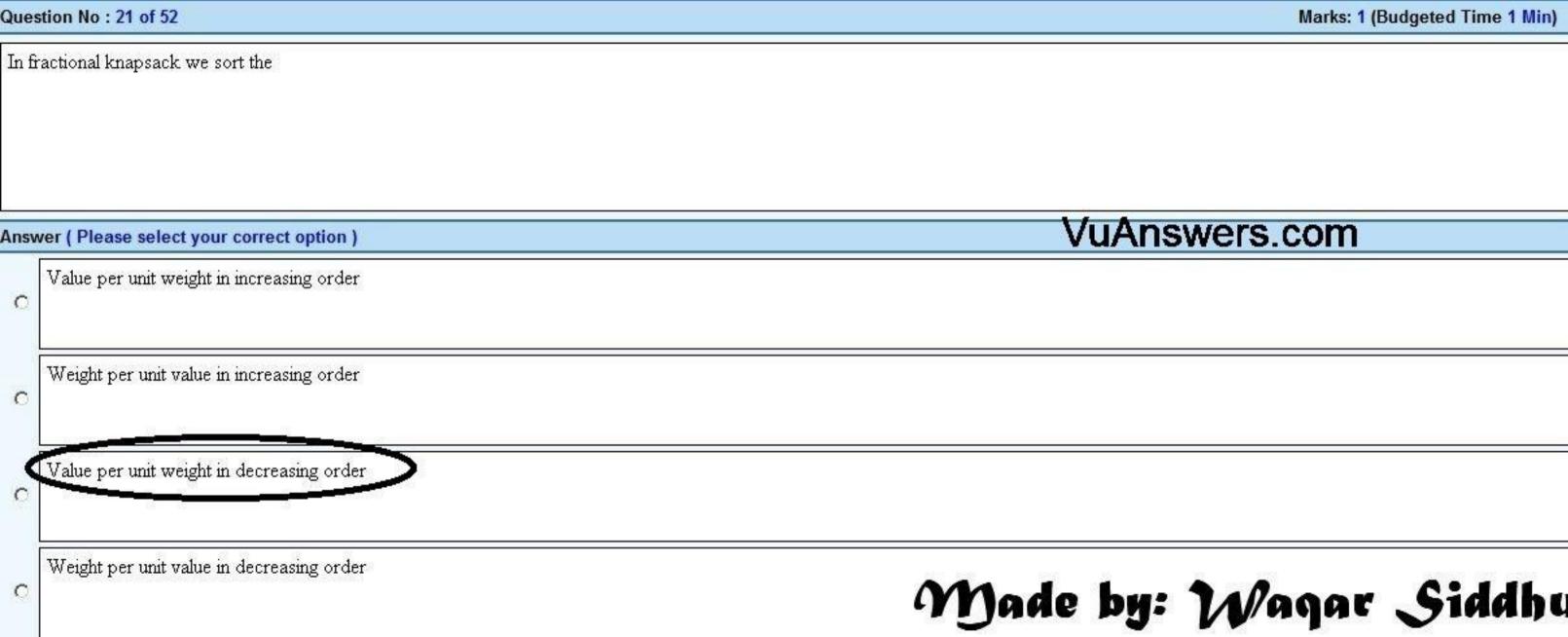


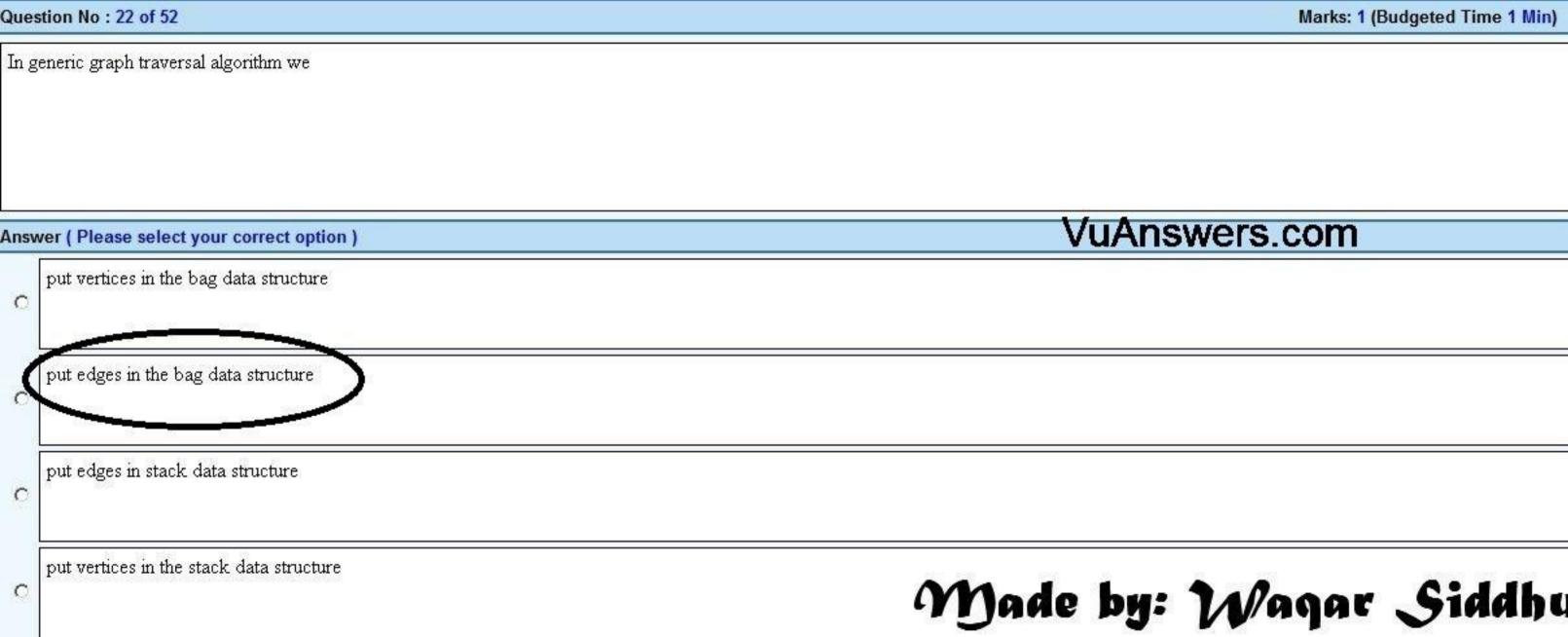


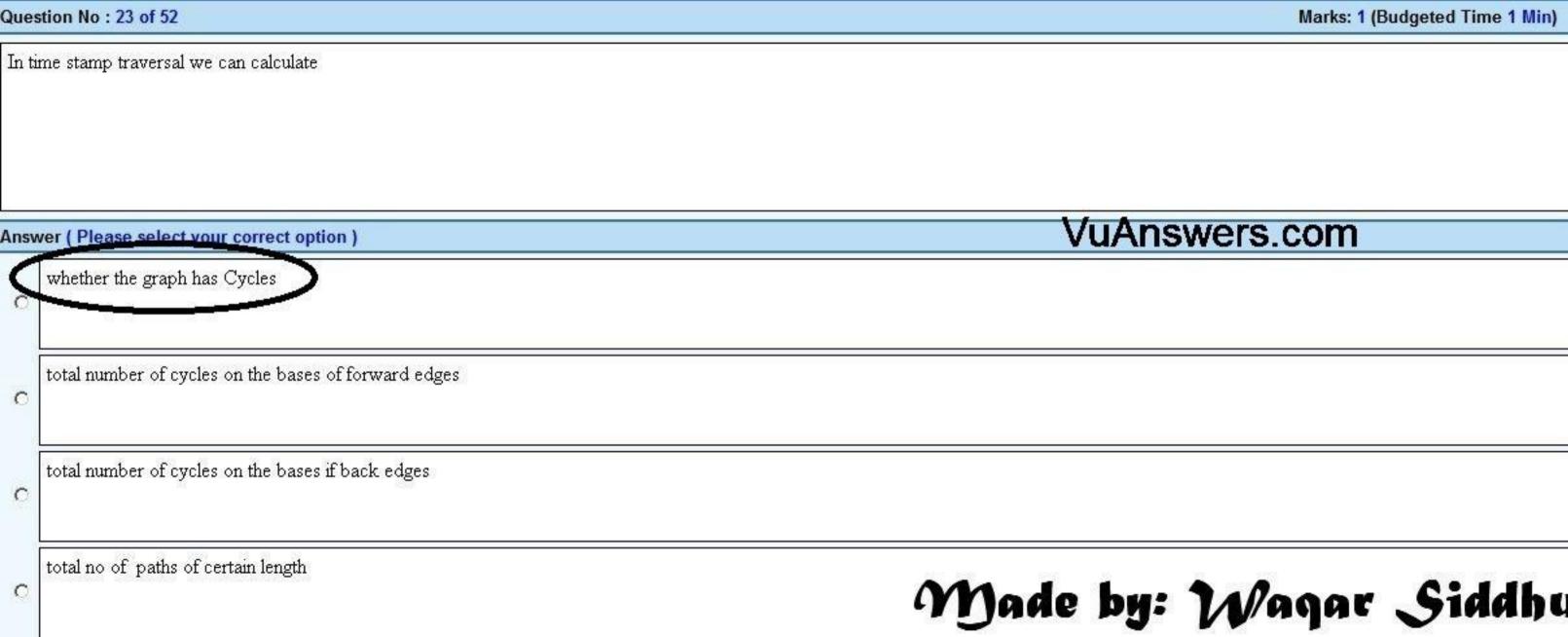


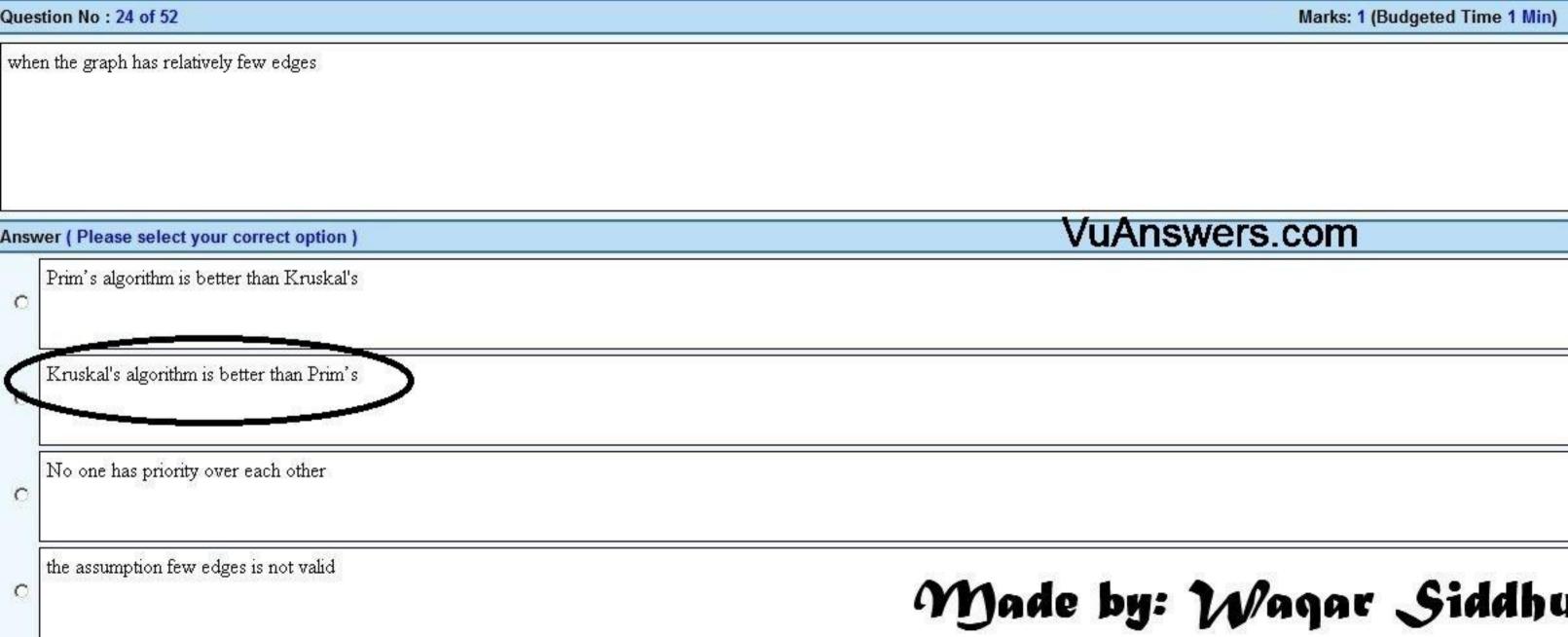
Question No : 19 of 52	Marks: 1 (Budgeted Time 1 Min)
Using Huffman encoding technique the string "abc" will take	
	\/uAngueorg.com
Answer ( Please select your correct option )	VuAnswers.com
5 bits	
6 bits	
24 bits	
12 bits	Made by: Waqar Siddhu

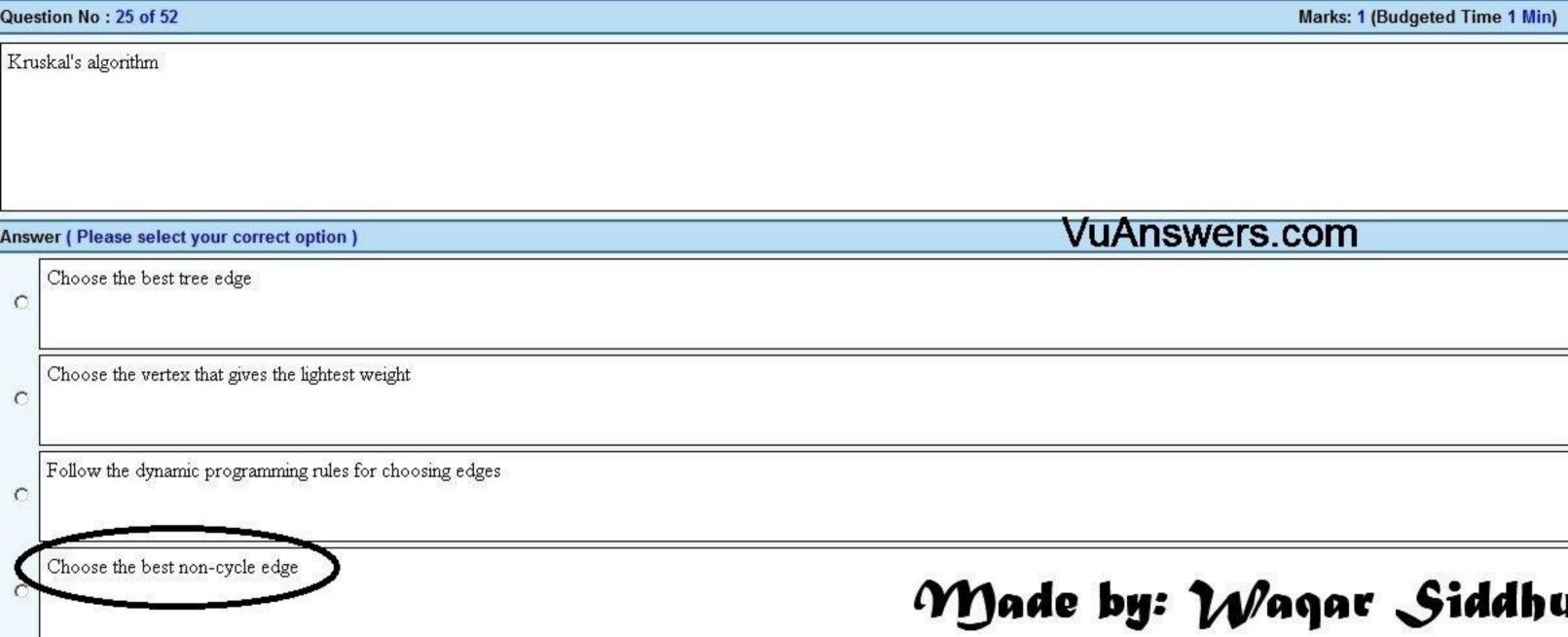
Question No : 20 of 52	Marks: 1 (Budgeted Time 1 Min)
Using Huffman encoding technique the string "a@\$a" will be encoded withb	its
Answer ( Please select your correct option )	VuAnswers.com
<b>c</b> 5	
6	
8	
Huffman encoding fail at this string	Maqar Siddhu

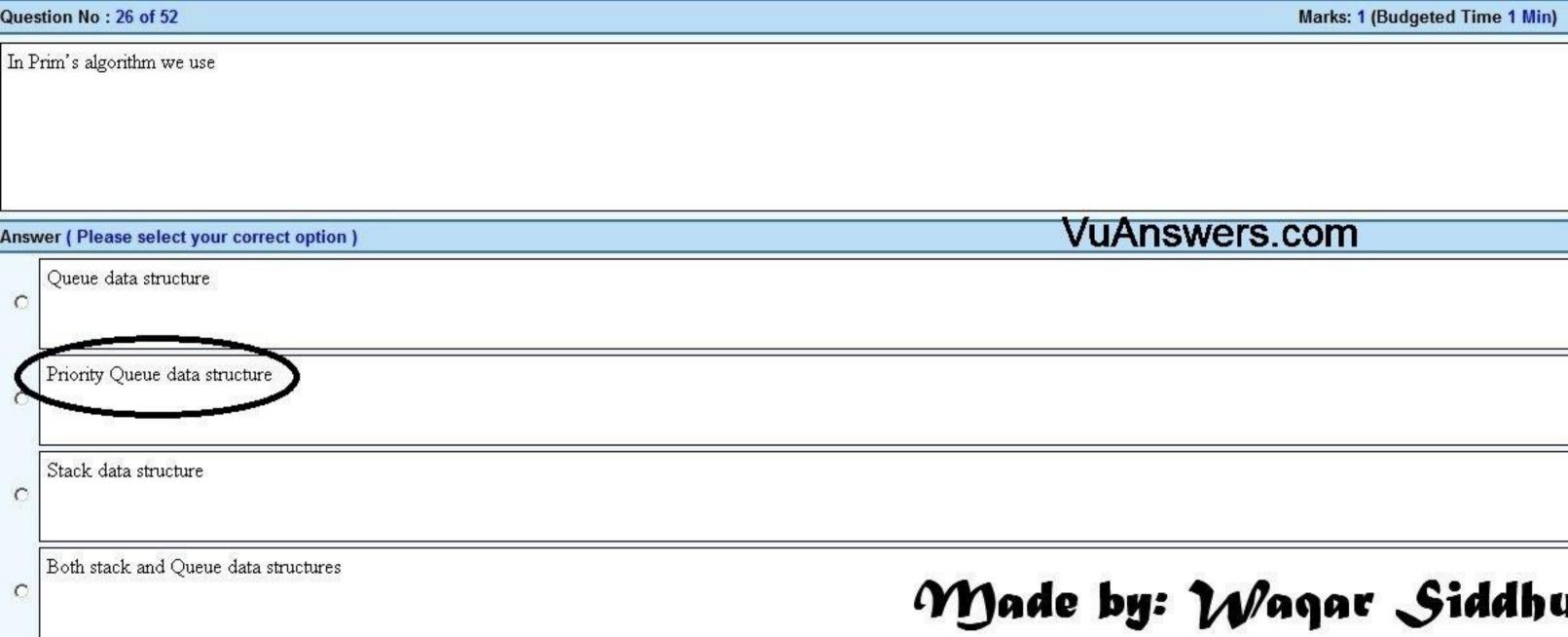


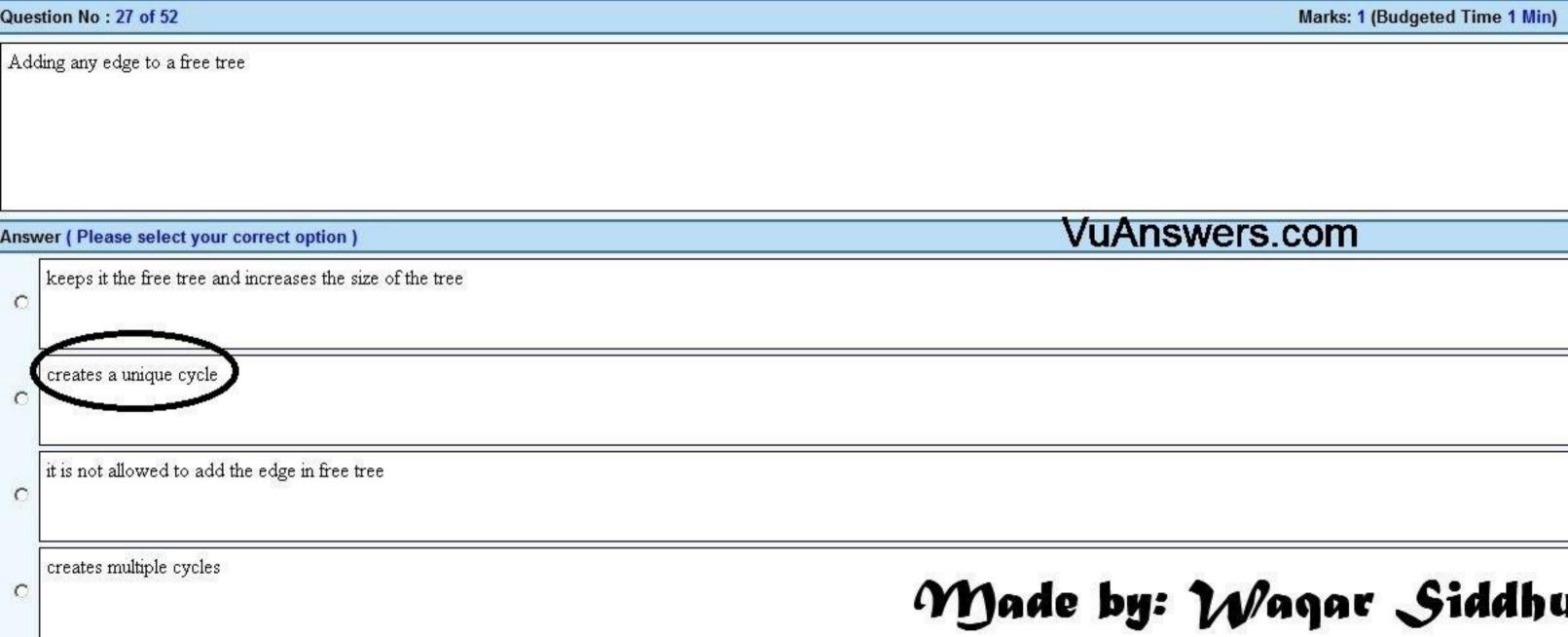


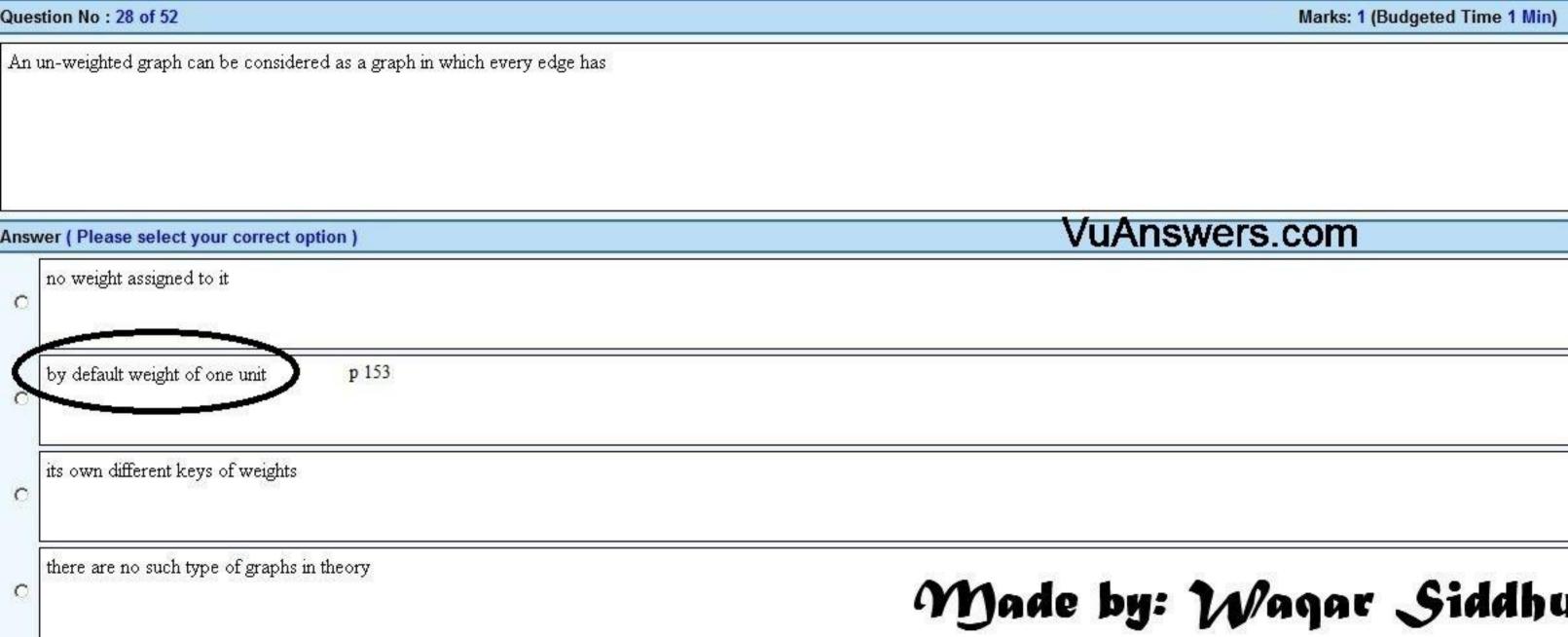


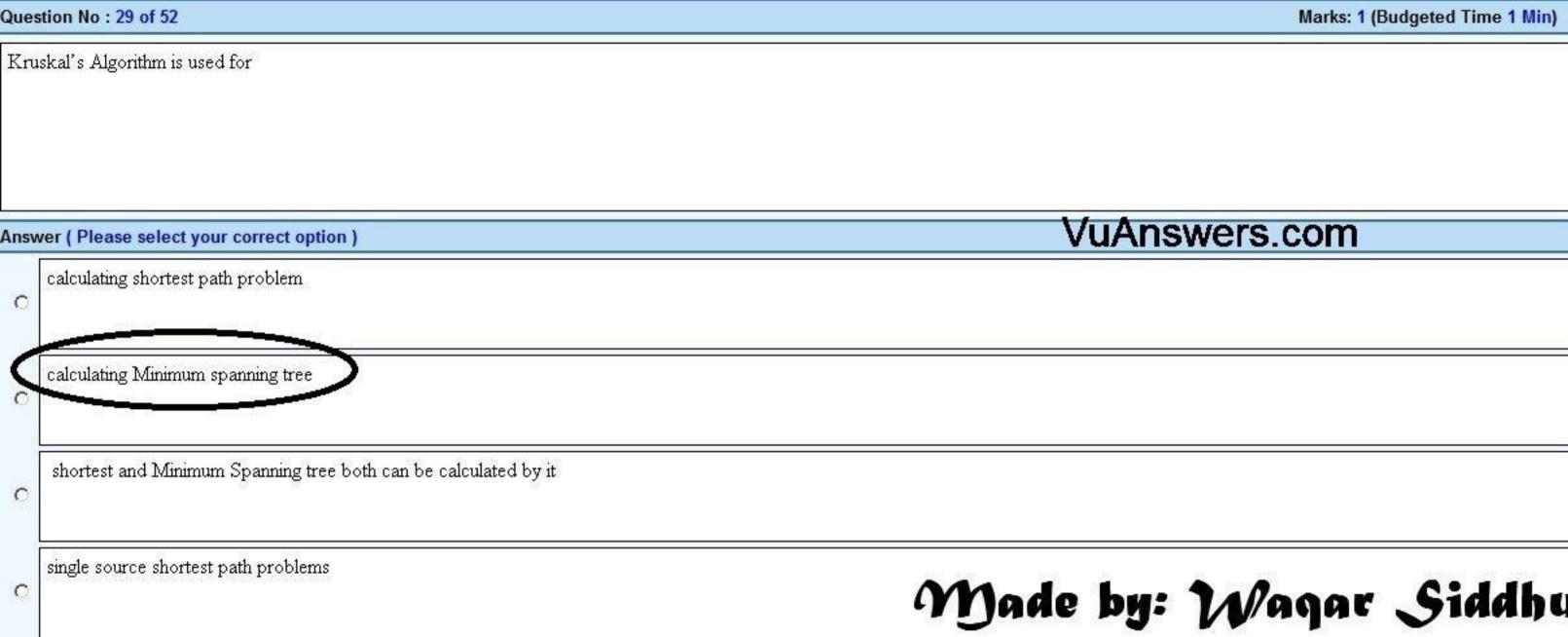


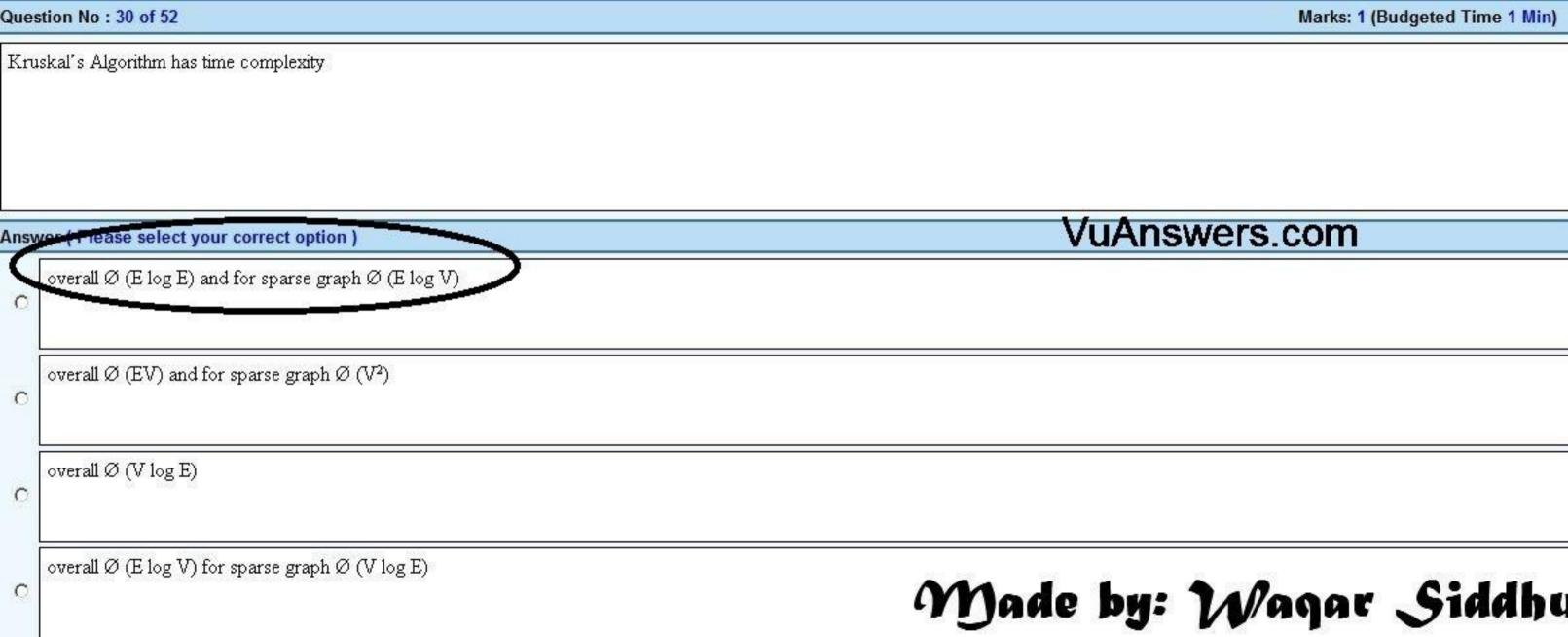


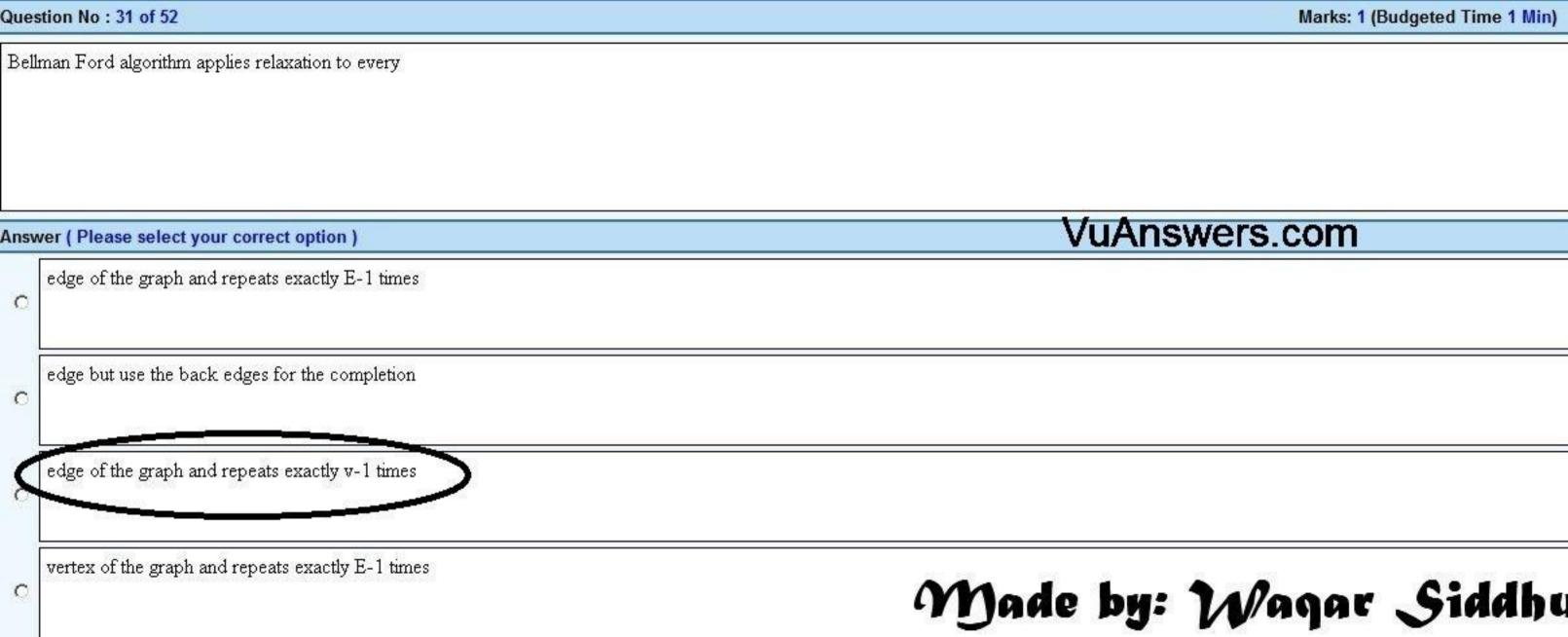




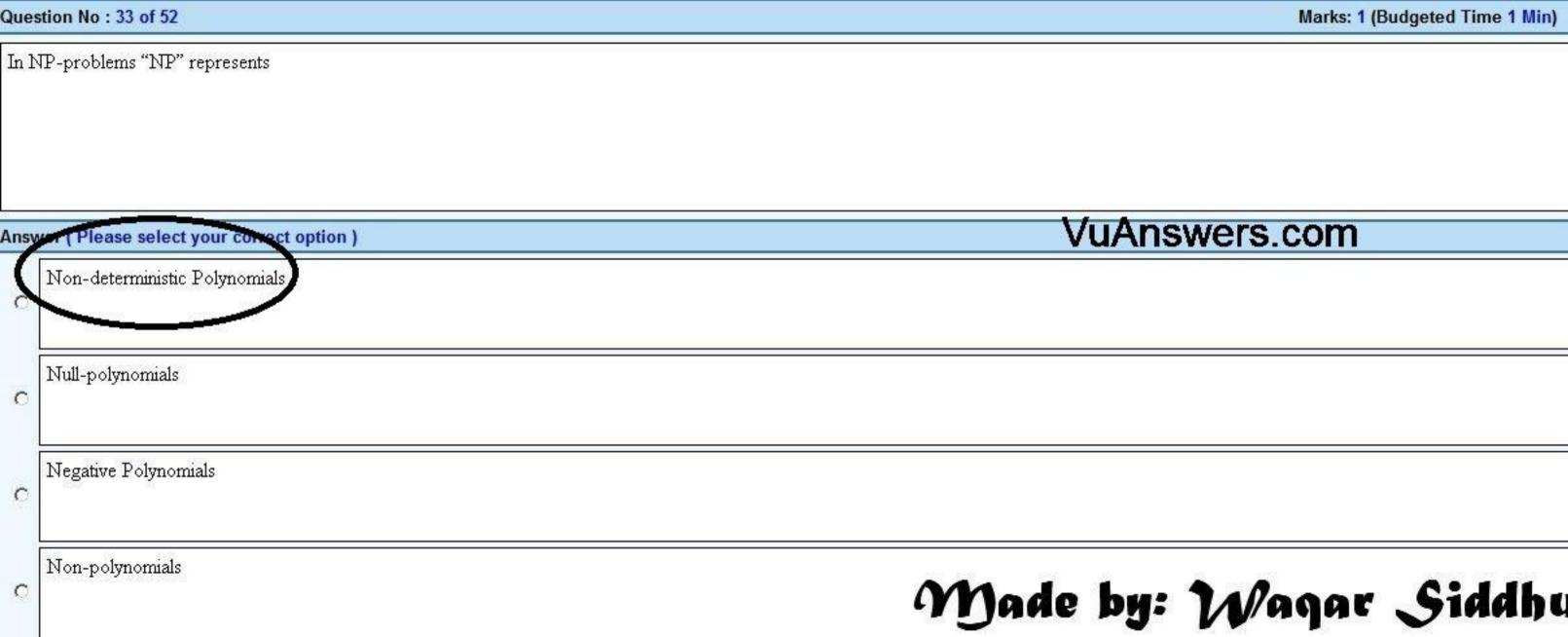


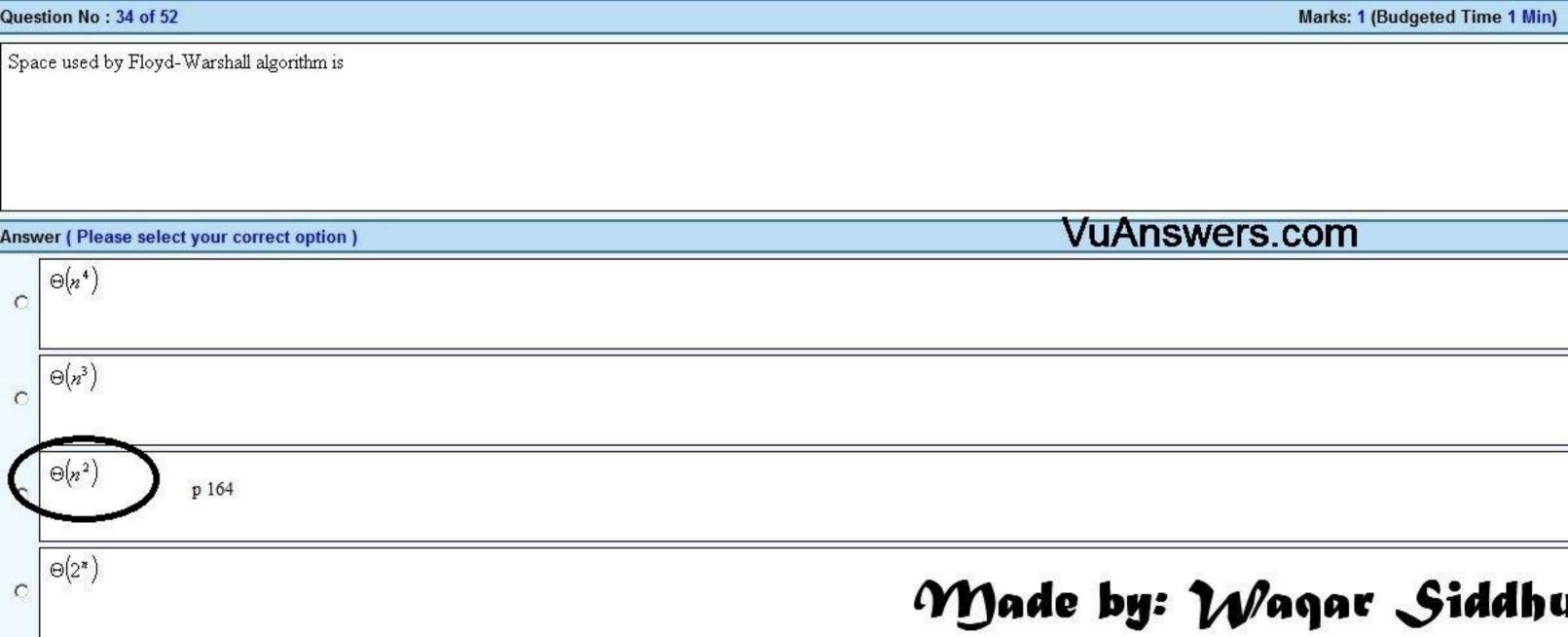


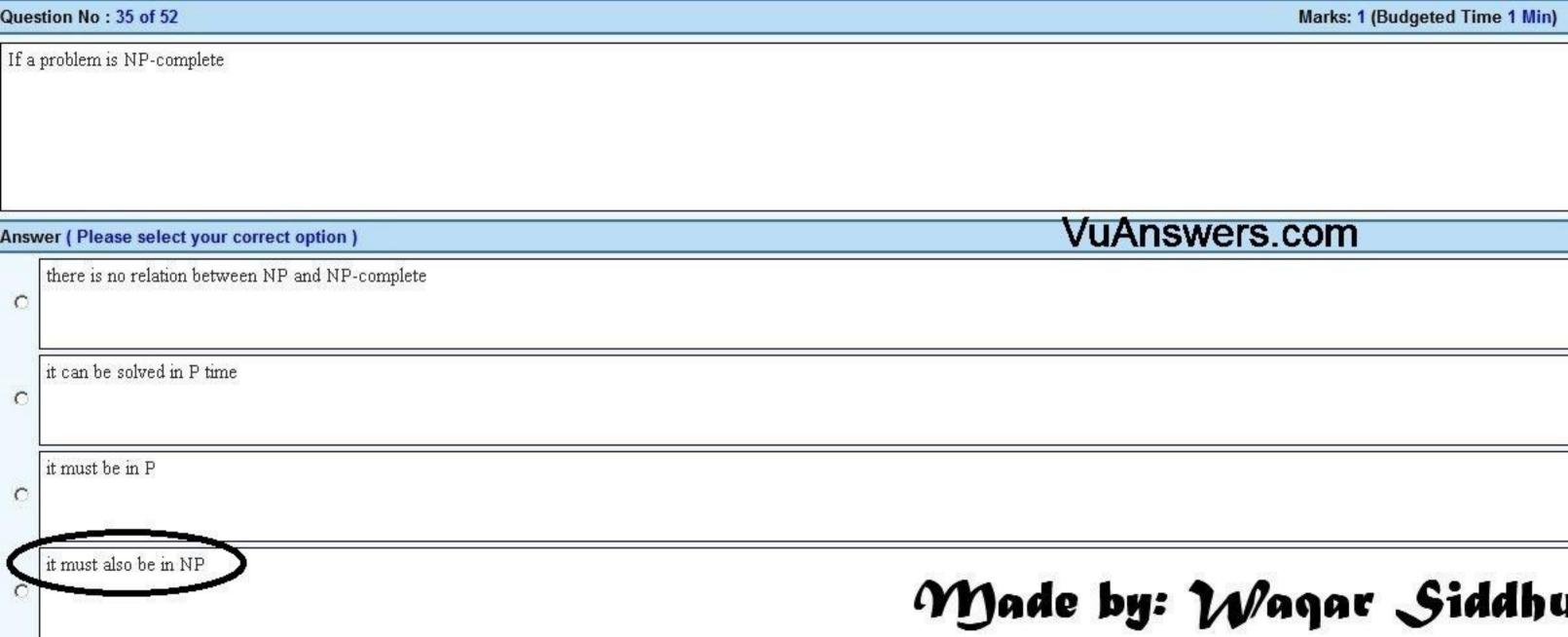


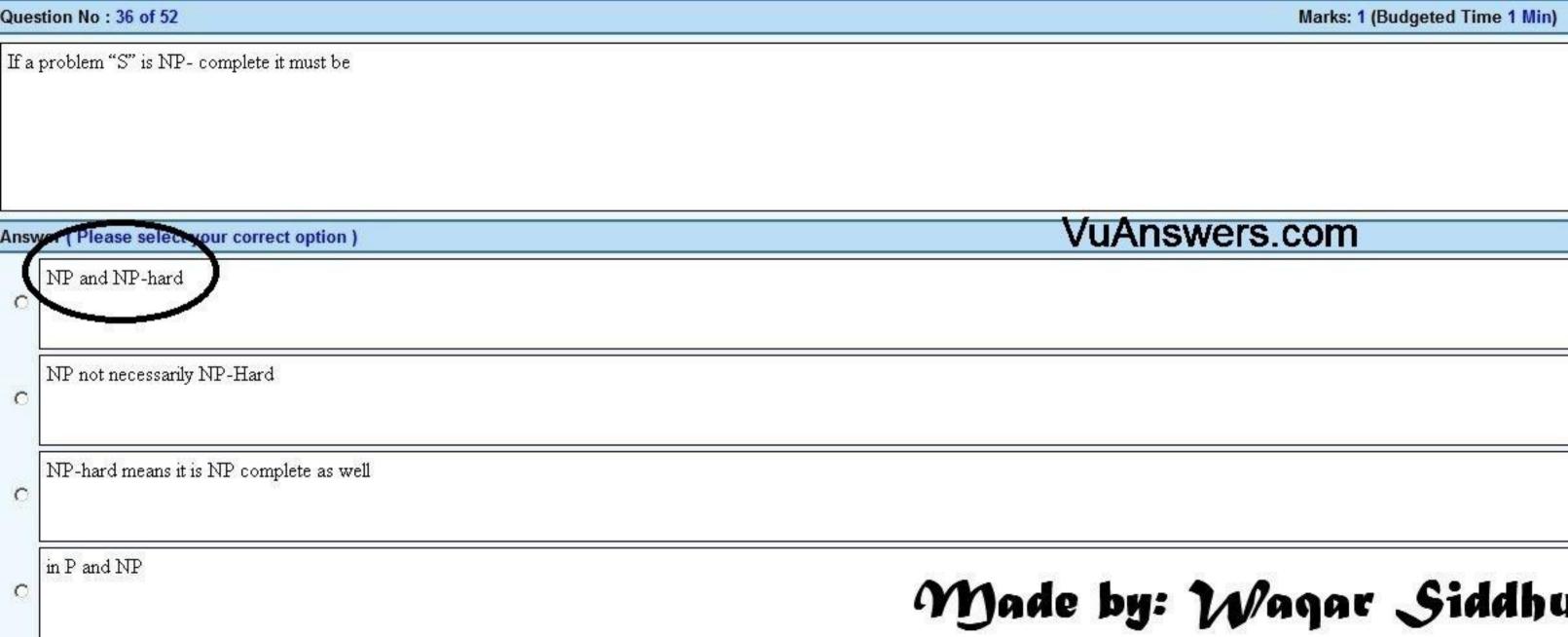




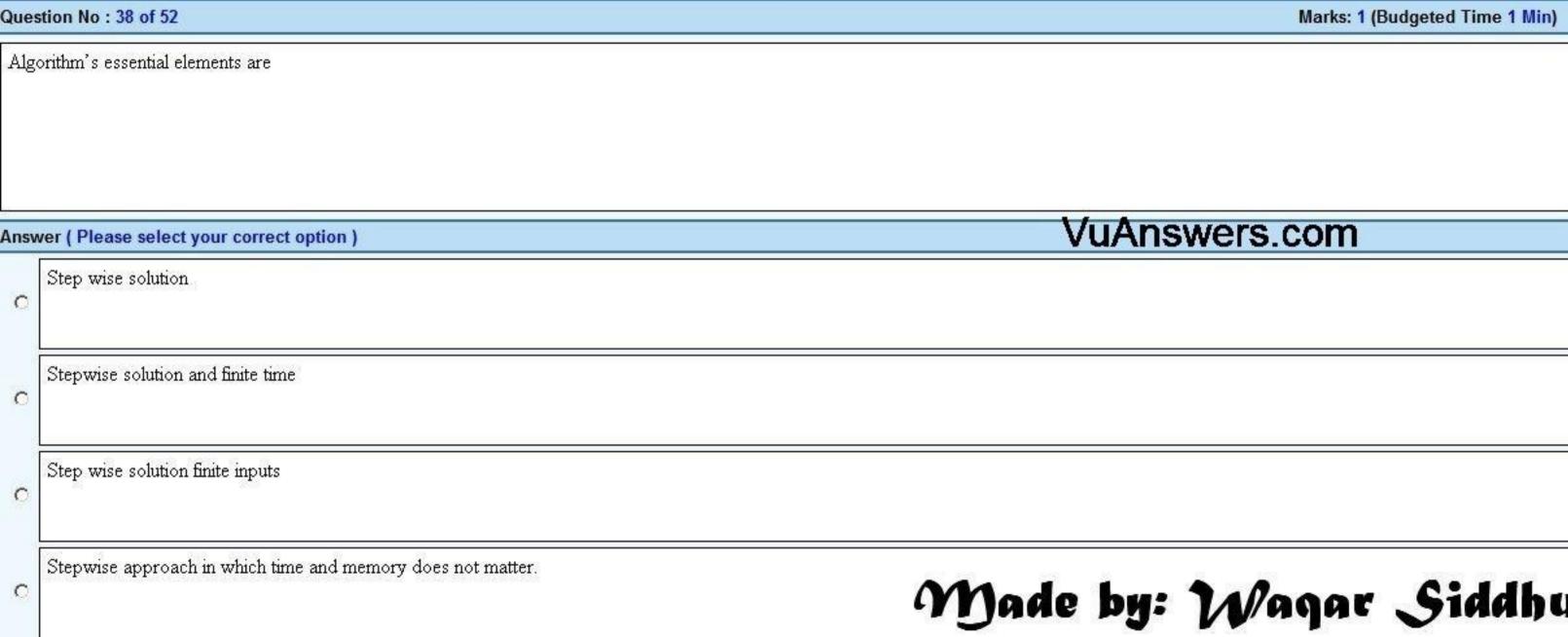


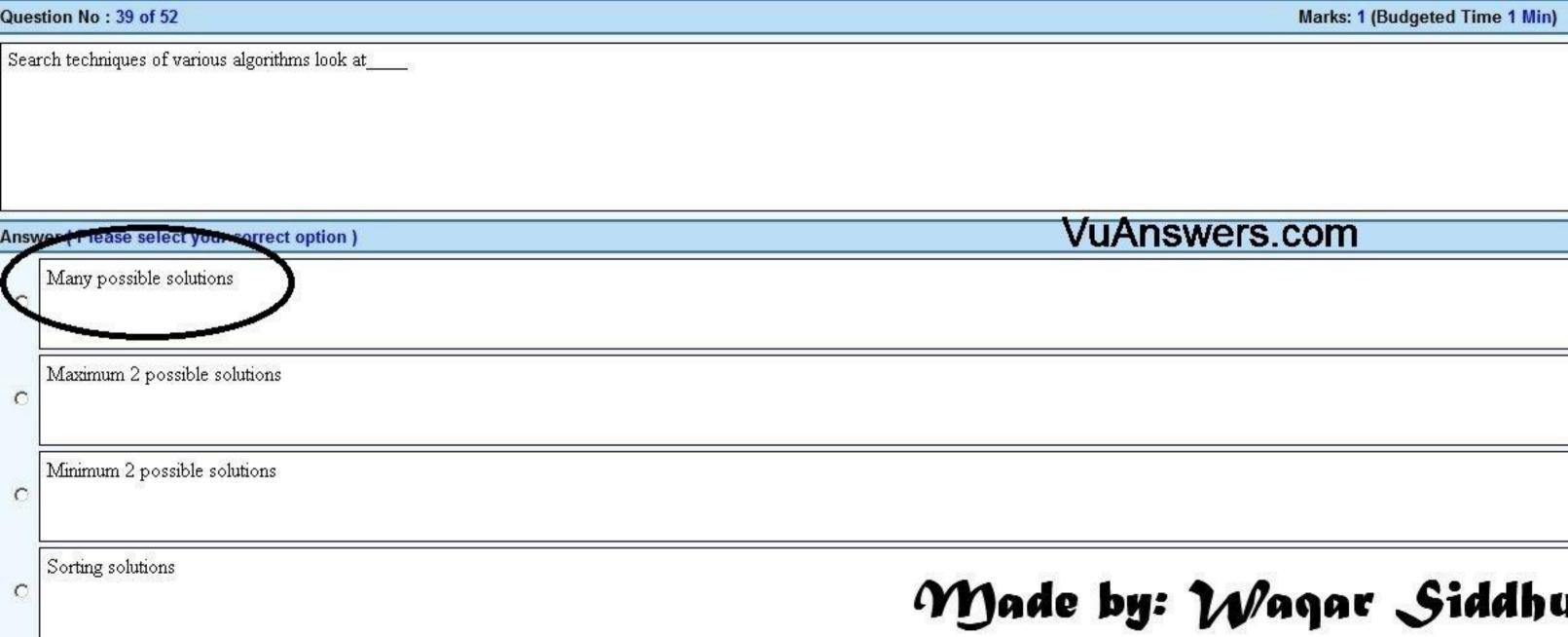


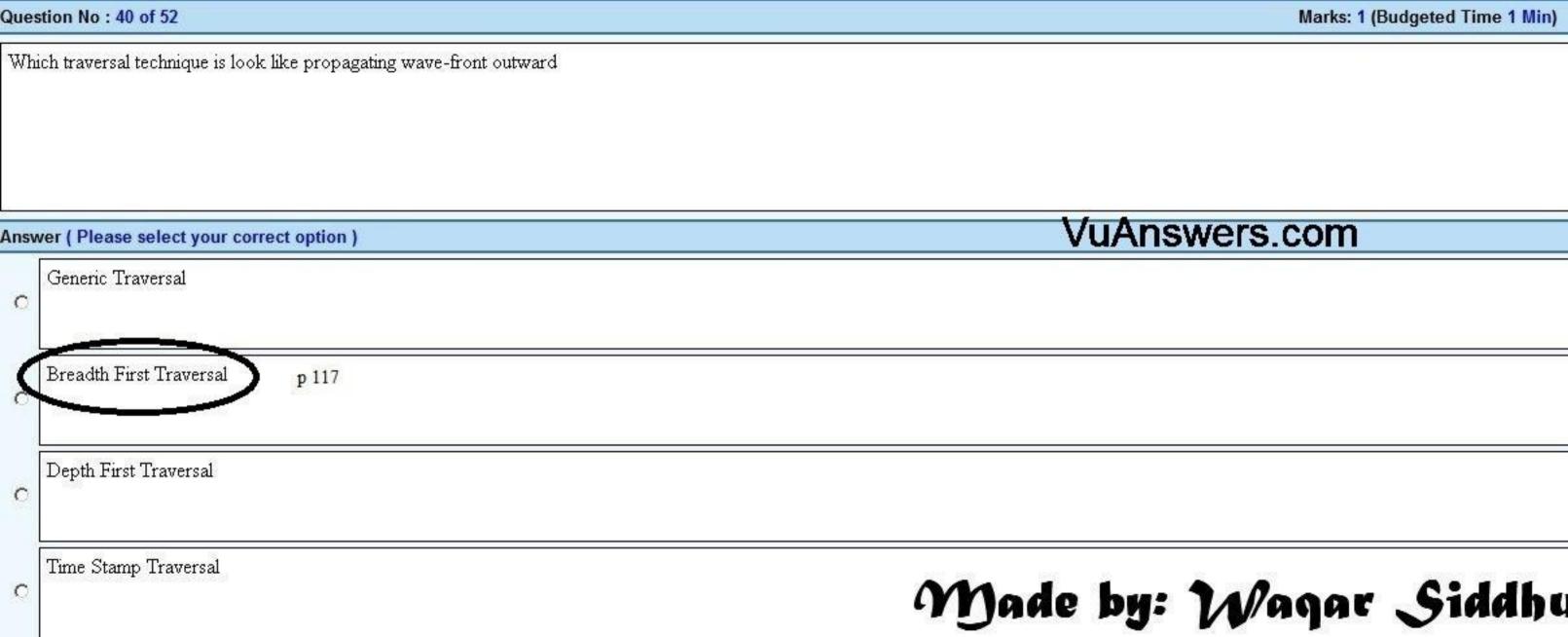




Que	stion No : 37 of 52	Marks: 1 (Budgeted Tim	e 1 Min)
In t	he 3-coloring problem, for two vertices to be in the same group, they must be not	to each other.	
Ansv	wer ( Please select your correct option )	VuAnswers.com	
О	Apart from		
0	Far from		
0	Near to		
6	Adjacent to	Made by: Wagar Sid	dhu







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