

## Daffodil International University Faculty of Science & Information Technology Department of Computer Science and Engineering Mid Semester Examination, Spring-2024 Course Code: CSE213 Course Title: Algorithms Level: 2, Term: 1

**Exam Duration: 1.5 Hours** 

Marks: 25

## Answer <u>ALL</u> Questions [Optional] [The figures in the right margin indicate the full marks and corresponding course outcomes. All portions of each question must be answered sequentially.]

												[ 2.5	C01
a) for(i=0;i*i<= sum=sum+: } for(j=0;j<=n sum=sum+ }	l; ;++j)(		} } else{	or (i= fo } or (j=	1; i r(j= pr	l; j <sup>.</sup> intf <=n;	<=n; ("An <u>;</u> ++j	++j) ythi	ng");			+ 2.5 ]	
on the simulat	a sorting algorithm following data to ion. 49, 36, 27, 6, 1, 43	sort th	nem in						-			[5]	CO2
13.												[5]	CO2
	Character	Н	E	L	0	Α	Р	_					
	Frequency	105	2/5	21	<b>g</b> 0	14	<b>5</b> 74	3⁄8					
"HEL! huffma	the above inform LO_APP" Applying an encrypted messed all the necessary st	ng Hu sage [i	uffman	codi	ing t	echni	ques	wha	at wi	ll be	the		



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4.	library has many books bookshelf. Unfortunately you have e for the given example bel 64]. Now you have to fin	and the books are sort ntered the library at the ow your starting position ad out the book with coor s. Apply an appropriat and show all the necessa	with code number 27. The ed by code number on the back side of the library [i.e n is in front of Book number de 27 and you will be given te algorithm to find out the ary steps.	CO3	
5.	adventures and discoverin One day he and his nepho	g historical and mysteric ew Shontu travel in the valuable stones. They we	Arab country and they find a ere very delighted to collect	CO3	
	Shontu is your best frier stones that they can carr	nd and Shontu wants he	elp from you to choose the rofit. Apply an appropriate		
	Shontu is your best frier	nd and Shontu wants he	elp from you to choose the		
	Shontu is your best frier stones that they can carr algorithm to help Shontu.	nd and Shontu wants he y and make the best p	elp from you to choose the rofit. Apply an appropriate		
	Shontu is your best frier stones that they can carr algorithm to help Shontu. Stones	nd and Shontu wants he y and make the best p Value	elp from you to choose the rofit. Apply an appropriate Available Unit		
	Shontu is your best frier stones that they can carr algorithm to help Shontu. Stones Diamond	nd and Shontu wants he best p Value 5	elp from you to choose the rofit. Apply an appropriate Available Unit 3 · $rac{1}{rac{$		
	Shontu is your best frier stones that they can carr algorithm to help Shontu. Stones Diamond Pearl	nd and Shontu wants he y and make the best p Value 5 7	elp from you to choose the rofit. Apply an appropriate Available Unit 3 · = 2 -	1	

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