

University of Dhaka Institute of Information Technology Bachelor of Information Technology (Software Engineering) Semester Final Examination, 2020



CSE 101: Structured Programming
Marks: 30 Time: 1.5 Hour (1 Hour 15 Minutes to Answer and 15 Minutes to upload)

Professionalism	Excellence	Respect	
a. Define the variable example <i>C</i> code.b. What are C's data-ty	? What are the types of va	ariables? Illustrate those with an casting?	2+1+3
a. Show that arrays and	pointers are interchangeable.	•	4+2
b. Write a program that	takes a string as a command-	<u> </u>	2+4
to send it over untruste two bytes. And create a	d network, encode marks by s mother file called encode.txt. (wapping each of the mark's lower Create another function which can	6
functions for reading or b. Write a program tha	writing a file in a stream of c t takes an input file and a byte	haracters mode. e number from the command line.	3+3
	a. Define the variable example <i>C</i> code. b. What are C's data-ty c. Why C's <i>for</i> loop is a a. Show that arrays and b. Define <i>structure</i> and a. Define function parable. Write a program that a recursive function to a recursive function to send it over untrusted two bytes. And create a decode those marks according of the code of	a. Define the variable? What are the types of variable <i>C</i> code. b. What are C's data-type modifiers and what is type c. Why C's <i>for</i> loop is considered so powerful? Explara. Show that arrays and pointers are interchangeable. b. Define <i>structure</i> and <i>union</i> and differentiate those a. Define function parameter and argument with a suib. Write a program that takes a string as a commanda recursive function to display the letters reversely. Take a CSE101 number file containing the marks of a to send it over untrusted network, encode marks by stwo bytes. And create another file called encode.txt. decode those marks accordingly in a separate file call a. What do you understand by file and stream in C? functions for reading or writing a file in a stream of c. b. Write a program that takes an input file and a byte Now read the value that the byte number contains	Answer all the questions. The weight of each question is mentioned at the right side a. Define the variable? What are the types of variables? Illustrate those with an example C code. b. What are C's data-type modifiers and what is type casting? c. Why C's for loop is considered so powerful? Explain with examples. a. Show that arrays and pointers are interchangeable. b. Define structure and union and differentiate those with array. a. Define function parameter and argument with a suitable example. b. Write a program that takes a string as a command-line argument. Your program uses a recursive function to display the letters reversely. Take a CSE101 number file containing the marks of 42 students in 100. Since you have to send it over untrusted network, encode marks by swapping each of the mark's lower two bytes. And create another file called encode.txt. Create another function which can decode those marks accordingly in a separate file called decode.txt. a. What do you understand by file and stream in C? Mention all the input and output functions for reading or writing a file in a stream of characters mode. b. Write a program that takes an input file and a byte number from the command line. Now read the value that the byte number contains in the file. Include full error

Good Luck!!!