

School of Computer Science and Engineering Winter Semester 2022-2023 Continuous Assessment Test - 1

SLOT DI

Programme Name & Branch: B. Tech (CSE)

Course Name & code: Structured and Object-Oriented Programming

BCSE102L

Class Number (s): 3 L2022230505539

Faculty Name (s): Jayachandran, J

Exa.: Duration: 90 Min.

Maximum Marks:

50

Q.No.	Sucstion	controlled	Max Marks
1.	a) Compare the entry-controlled neat example.	d and exit-controlled loops with a (5)	10
	calls and calculate the monthly trule: Minimum Rs. 100 for up to 50 c		6
	Plus Rs. 1.75 per call for next 50 Plus Rs. 1.50 per call for next 50 Plus Rs. 1.00 per call for any cal	0 calls.	
	•	(5)	
l n	n) Justify the need for type conseat example, discuss the difference performed.	version in C programming. With rent ways the type conversion (5)	n a 10 can
m) Develop a C program to perf		
	anipulation operations without	t using in-built functions.	1
	Calculate the length of String		

			$\overline{}$		
ii) Compare two		(5)	10		
3. A security firm and an hourly ragiven below:	and an hourly rate is paid every day based on their grade. Details				
Grade	Hourly Rate(Rs.)	Overtime Pay (Per Hour)			
	100.00	125.00			
2	200.00	250.00			
3	300.00	375.00			
The firm has a policy for paying employees based on the number of hours they work in a day. The policy is as follows: Less than 3 hours of work: no pay. Between 3 and 6 hours of work: half pay (50% of the hourly rate). More than 6 hours of work: full pay (100% of the hourly rate). However, beyond 8 hours, the evertime pay is applicable for every additional hour. Displement a function 'salary()' to compute and return the salary of an employee based on the policy. The number of hours worked in a day and the grade of the employee should be passed as an arguments to the 'salary()'. Note: The maximum number of hours an employee can work to a day is 12 hours.					
Data structures will execution. How the managed at runtime?	memory allocation a	during the program nd reallocation can be ple program.	10		
5. a) Illustrate the signiful values from a function (7) Develop a C function temporary variable. The in a user-defined function bitwise operators.	on to swap two numers where the swap in the swap operation.	nen you return multiple th a suitable code. mbers without using a n should be performed			

4.5