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2022/TDC/ODD/SEM/CSCHCC-101T/082

TDC (CBCS) Odd Semester Exam., 2022

COMPUTER SCIENCE

(Honours)

(1st Semester)

Course No.: CSCHCC-101T

(Programming Fundamentals Using C/C++)

Full Marks: 50
Pass Marks: 20

Time: 3 hours

The figures in the margin indicate full marks for the questions

UNIT-I

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- 1. Answer any *two* of the following questions: 2×2=4
 - (a) Write down the difference between C and C++.
 - (b) What is the meaning of void main (void)?
 - (c) What are header files? Write down the purpose of <iostream.h>.
- 2. Answer any one of the following questions: 6
 - (a) (i) Write down the characteristics of POP and OOP. 4
 - (ii) What is the difference between i++ and ++i? Explain with example. 2

J23/86

(Turn Over)



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	(b)	(i) Write a C++ program to convert the temperature from Fahrenheit to	
		Celsius.	4
		(ii) What do you mean by logical expression in C/C++? Give	
		example.	2
	Legi-	UNIT—II	
з.	Ans	swer any two of the following questions:	2=4
	(a)	What do you mean by actual argument	
	(a)	and formal argument? Give example.	
ž	(b)	How are 2D arrays declared and	ų.
		initiated? Give its structure and example.	
	(c)	What is infinite loop? Give example.	
4.	Ans	wer any one of the following questions:	6
	(a)		
		maximum number of an array using function.	
	(b)	Define the following:	6=6
	(~)	(i) Structure tag	
		(ii) Structure element	
	100	(iii) Structure variable	-
		(iv) Dot operator	
		(u) Nested structure	
		(vi) 'Struct' keyword	
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5.	Ans	wer any two of the following questions:
		2×2=4
	(a)	Write two advantages of using pointer.
To the second	(b)	What do you mean by array of pointer? Give example.
	(c)	Are the expressions *ptr++ and ++*ptr same? Justify.
6.	Ans	wer any one of the following questions:
	(a)	(i) How to access array elements using pointer? Give example.
	r —v Vi	(ii) Write down the uses of 'new', 'malloc()', 'delete' and 'free()'.
	(b)	Write a C/C++ program to check whether a particular string is palindrome or not using pointer.
W		UNIT—IV

7. Answer any two of the following questions:

in C++? Give example.

implemented in C++?

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How are objects declared and initialised

What is the difference between private and protected access modifiers?

What is data hiding? How is data hiding

(Turn Over)

UNIT-III

8.	Ans	wer	any one	of th	e follow	ing quest	ions	: 6
	(a)		word an	111	C++	program object c		O
			nacced	to a	function			-
S . 40		201	What	is i	function able exa	overioa mple, ex	pian	? n .s
	A-strift	Late N	how	funct	ion ov in C++.	erioaume	, .	s +2=3

(b) Explain default, parameterized and copy constructors using example. 2+2+2=6

Unit—V

- **9.** Answer any *two* of the following questions: $2\times2=4$
 - (a) What are early binding and late binding?
 - (b) What is multiple inheritance?
 - (c) What is virtual function?
- 10. Answer any one of the following questions: 6
 - (a) Explain exception handling with example.
 - (b) Write a C++ program to implement multilevel inheritance.

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