Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages. 2. Any revealing of identification, appeal to evaluator and for equations written eg. 42+8 = 50, will be treated as malpractice.

Sixth Semester B.E. Degree Examination, Aug./Sept.2020 Programming in C++

Max. Marks: 100

Note: Answer any FIVE full questions, selecting at least TWO full questions from each part.

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acti			PART - A	
alpr	1	a.	What is object oriented programming? What are the advantages of object oriented	
s m			over procedure oriented languages?	(08 Marks)
sd a		b.	Explain with an example program how dynamic memory allocation is performe	
eate			help of new and delete operator.	(06 Marks)
oc tr		c.	What is enumerated data type? Explain.	(06 Marks)
Įį.				
% ⊗	2	a.	What is pointer? Explain the difference between a pointer and reference types with	
= 5(example.	(06 Marks)
∞ +		b.	What are preprocessor directives? Explain with examples.	(06 Marks)
 Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice 		C.	Define an array and write a C++ program to find the largest element of an array.	(08 Marks)
ten	3	a.	With an example, explain the precedence of operators in C++.	(06 Marks)
wri		b.	Explain the call-by-value and call-by-reference parameter passing methods with a	in example
Suc			program each.	(08 Marks)
ıatic		C.	Explain two ways of type conversion using a suitable C++ program.	(06 Marks)
ıbə.				
I /or	4	a.	Write a C++ program to reverse all the digits of a number (integer) using function.	. (06 Marks)
anc		b.	Explain function declaration, function calling and function definition with s	syntax and
ator			example.	(08 Marks)
alua		c.	Write a C++ program to find GCD of 2 numbers using recursive function.	(06 Marks)
0 ev				
al t	PART - B			
ıppe	5	a.	What is exception handling, with an example explain try, throw and catch mec	hanisms in
n, a			C++.	(10 Marks)
catic		b.	Write a C++ program to demonstrate multiple catch statements.	(10 Marks)
ıtifi	6	a.	Input name, role number and marks in 3 subjects for 10 students. Calculate	their total
ider	v	4.	percentage print a report name, role number, total and percentage.	(12 Marks)
jo		h	Explain constructor and destructor function with suitable program.	(08 Marks)
ling		0.	Explain constructor and destructor random with barrage programs.	(
vea	7	a.	Explain the following with example: overloaded operators $+ +$ and $$.	(08 Marks)
y re	,	b.	What is operator overloading? Write a program in C++ to concatenate two	
An		υ.	overloading operators +.	,
7			C = VTII C = VADNATAVA C = C + C	(12 Marks)
			CHAIT LIDRANT	(===)
	8	a.	Explain the multiple inheritance with an appropriate example.	(10 Marks)
	o	b.	Explain public, private and protected inheritance with example.	(10 Marks)
		U.	Emplant paone, private and protected innertained in the	

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