CBCS SCHEME

15EC562

Fifth Semester B.E. Degree Examination, Aug./Sept.2020 Object Oriented Programming using C++

Max. Marks: 80

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	Λ	lote: Answer any FIVE full questions, choosing ONE full question from each mod	ule.
		Module-1	
1	a.	E1	(04 Marks
	b.	What is the difference between a reference and a pointer variable? Explain with	example
			(06 Marks
	C.		(06 Mark
_		OR	
2	a.	Explain about the built-in datatype used in C++.	(04 Mark
	b.	Mention different types of expression in C++ with examples.	(06 Mark
	C.	Explain control structures in C++ with its syntax.	(06 Mark
	į.		
2		Final size for most of the last of the las	
3	a.	Explain the format of a class definition. Also explain the importance of friend fun	
	b.		(10 Mark
	U.	Explain function overloading with an example.	(06 Mark
		OR	
4	a.	F1-in II 1'CC	(00 Maul
	b.	Will a control of the	(08 Mark (08 Mark
	6.	the a resultive program to find the factorial of a number.	(UO MAIK
		Module-3	
5	a.	Mention the use of parameterized constructors and multiple constructors in a class.	
			(06 Mark
	b.	Develop a class STUDENT containing the following data members: NAM	IE, USN
		MARKS. Provide appropriate set of constructors for the class and write supporting	ng main(
	- m		(06 Mark
	c.	Write a note on destructor in a C++ program.	(04 Mark
	ř		
6	0	What is anomator avoid a ding? Write a war of	
U	a.	What is operator overloading? Write a program for overloading unary minus operator	
	b.	Write a program with class name TIME that has three data members hour, m	(08 Mark
		second. Write two constructors of which one should initialize to all zero and	
		initialize to values provided as parameters. Write supporting main() to exerc	
			(08 Mark
	Š	Module-4	
7	a.	Define multilevel inheritance and multiple inheritance with example program.	(10 Mark
	1.	M	

b. Mention the role of access specifiers in inheritance. (06 Marks)

1 of 2

Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.

OR

(06 Marks) Briefly explain virtual function with rules. (06 Marks) Illustrate how to use pointers can point to an object created by a class. (04 Marks) b. Mention the use of 'this' pointer.

9

Module-5

(08 Marks)

(08 Marks)

List and explain C++ stream classes. Elaborate any four ios format functions with example.

OR (08 Marks) 10

Write a program to append "VTU" and "BELGAVI" texts to a file and display it on the b.

In file stream operation which function is used to find the end of a file. Illustrate with