## SLR-SH-15

	_	
Seat No.	Set	Р

B.C.A. (Semester - III) (CBCS) Examination March/April-2019 OOP WITH C++							
		ate: Friday, 12-04-2019 :00 PM To 02:30 PM		Max. Marks: 70			
Instr	ucti	ons: 1) All questions are compulsory. 2) Figures to the right indicate full m	narks	S.			
Q.1		oose the correct alternative and rewrite An expression A.B in C++ means a) A is a member of object B c) Product A & B	b)	B is a member of object A None of these			
	2)	In C++ program inline function are expar a) Run time c) Late Binding	b)	l during Compile Time Early Binding			
	3)	An exception in C++ can be generated u a) thrown c) throw	b) -	which keyword. threw throws			
	4)	Which of the following function declaration incorrect?  a) int fun(int x, int y, int z=10)  c) int fun(int x=5, int y, int z=10)	b)	int fun(int x=5, int y=10, int z)			
	5)	<ul><li>Which function cannot be overloaded in</li><li>a) Virtual function</li><li>c) Static function</li></ul>	b)	program? Member function All can be overloaded			
	6)	Compile time polymorphism in C++ lang a) Operator overloading c) Function overriding	b)	e is. Function Overloading Both A & B			
	7)	In a class pure virtual function in C++ is a) To create interface b) To make class abstract c) To force derived class to implement p d) All of above					
	8)	In C++ programming cout is an a) Function c) Object	,	Operator All of above			
	9)	Which is abstract data type in C++ a) class c) float	b)	? int array			
10) When you create an object of class, then which one will be called automatically  a) Destructor  b) Constructor  c) Copy constructor  d) None of these							
	11	)The class in C++ which act as base clas a) Virtual class c) Abstract class	b)	which object is cannot be created Super class None of these			

	<ul><li>12) Data members &amp; member functions of class are by default.</li><li>a) protected</li><li>b) public</li><li>c) private</li><li>d) none of these</li></ul>				
	<ul> <li>13) Which object is used to allocate memory dynamically in C++?</li> <li>a) scope resolution operator</li> <li>b) conditional operator</li> <li>c) new operator</li> <li>d) none of these</li> </ul>				
	<ul> <li>14) The C++ header file contains function prototypes for the standard input and standard output functions.</li> <li>a) <iomanip> b) <fstream></fstream></iomanip></li> <li>c) <iostream> d) All of above</iostream></li> </ul>				
Q.2	<ul> <li>A) Answer any four of the questions briefly:</li> <li>1) What is the role of protected access specifier?</li> <li>2) What is reference variable in C++?</li> <li>3) What is this pointer?</li> <li>4) What is class?</li> <li>5) What is data encapsulation?</li> </ul>				
	<ul> <li>B) Write note on any two of the following.</li> <li>1) What is inline function? Give an example.</li> <li>2) Explain scope resolution operator with example.</li> <li>3) Explain pure virtual function with proper syntax.</li> </ul>	06			
Q.3	<ul> <li>A) Answer any two of the following</li> <li>1) What are manipulators? Explain with example.</li> <li>2) Explain different type of file modes.</li> <li>3) What is class destructor? Explain with example.</li> </ul>				
	<ul> <li>B) Answer any one of the following.</li> <li>1) What is exception? How exception is handled in C++. Explain with example.</li> <li>2) Write a program to illustrate the concept of constructor overloading.</li> </ul>	06			
Q.4	<ul> <li>A) Attempt any two of the following.</li> <li>1) What is operator overloading? What are the rule to overload unary &amp; binary operator?</li> <li>2) What is friend function? Write an example on addition of member of two different classes?</li> <li>3) Why we declare base class as virtual? Explain with example.</li> </ul>	10			
	<ul><li>B) Answer any one of the following:</li><li>a) Explain different types of inheritance with example.</li><li>b) Explain seekg() &amp; tellg() function.</li></ul>	04			
Q.5	<ul> <li>Answer any two of the following:</li> <li>a) Design two base classes Personnel (Name, DOB, Address) &amp; Qualification (Marks obtained in SSC, HSC,). Derived a class Biodata from these classes, write a C++ program to prepare biodata of student having personnel &amp; qualification information.</li> </ul>				
	b) Create a class Time & input two different times from user in Hour & Minute. Write a program add two times using operator overloading & print the result in format of HH:MM.				
	c) Write a C++ program that accept the name of two files, and copies the contents of the first file into the second file, [handle all kind of error in program execution]				