SARDAR PATEL UNIVERSITY

S.Y.BCA (Third Semester) (CBCS) Examination 2019

Thursday, 21st November 02.00 p.m. to 5.00 p.m.

US03CBCA02: Object Oriented Programming and CPP

Maximum Marks: 70

Note: - Answers of all the questions (including multiple choice questions) should be written in the provided answer book only. Multiple Choice Questions.

Q-1		Multiple Choice Questions.	[10]
	1)	is basic run time entity in object-oriented system.	
		A. Class B. Object C. Data D. Function.	
	2)	A is a collection of objects of similar type.	
		A. Class B. Object C. Data D. Function.	
	3)	is called as Insertion operator.	
		A. & B. << C. >> D. ::	
	4)	function is used to copy one string into another string.	
		A. strcpy() B. strcat() C. strcopy() D. strlen().	
	5)	is used to free/destroy the memory occupied by the objects.	
		A. constructor B. destructor C. Operator D. Function	
	6)	Access specifier is default in class definition.	
		A. private B. public C. protected D. All.	
	7)	Which one of the following operators cannot be overloaded?	
		A. << D. None.	
	8)	Constructor contains an object as argument	
		A. Copy B. Parameterizes C. Default D. none	
,	9)	While defining the derived class, base class name is written on side of :	
		symbol.	
		A. LHS B. RHS C. Both D. None	
	10)	Defining a function with same prototype in base class & derived class is known as	
		A. Inheritance B. Function Overloading	
		C. Function Overriding D. Inline Function.	1001
Q-2		Answer the following questions (Any Ten).	[20]
	1	List out the Features of OOP.	
	2	List out any four Header file in C++.	
	3	Define Polymorphism as concept of OOP.	
	4	Explain cout and cin in C++ with example.	
	5	Define Destructor and give its example.	
	6	Define Classes and Objects.	
	7	What is Inline function? Give an example of it.	
	8	Define Friend function.	
	9	What is a Virtual base-class?	
	10	What is Operator Overloading?	
	11	What are Input and Output stream?	
	12	What is the Difference between Opening a File with Constructor function	
		and With Open ()?	

Q-3	[A]	Differentiate between Object Oriented Programming and Procedural Oriented Programming.	[5]
	[B]	What is C++? Explain Structure of C++.	[5]
		OR	
Q-3	[A] [B]	Explain Features (Characteristics) of OOP in detail. Explain different Operator available in C++	[5] [5]
Q-4	[A]	How many types of Constructors we can create in C++ programs and also write few Characteristics of Constructor.	[5]
	[B]	How you can create Arrays Of Objects? Give an example and explain it.	[5]
		OR	
Q-4	[A] [B]	Explain declaration and initialization of String with example. Explain Different Methods of Defining Class Members with an example.	[5] [5]
Q-5	[A]	Explain concept of Virtual Base Class with example.	[5]
	[B]	Explain Different types of Inheritance explain Multiple and Multilevel inheritance with example.	[5]
		OR .	
Q-5	[A]	Explain the concept of Friend Function with suitable example.	[5]
	[B]	Discuss Inheritance in Private Mode & its effects on Accessibility of base- class members	[5]
Q-6	[A]	Explain Unary and Binary Operator Overloading with example. List Operator which can not be overloaded.	[10]
		OR	
Q-6	[A]	What is File Mode? Describe the various File Mode Operations available in CPP. Also Describe the various classes available for File Operations .	[10]

