C. U. SHAH UNIVERSITY Winter Examination-2022

Subject Name: Object Oriented Programming with C++

Subject Code: 4CS03IPC1				Branch: B.Sc.I.T.				
Semester: 3		Date: 21/11/2022		Time: 11:00 To 02:00		Marks: 70		
(2) (3)	Use of Progr Instructions Draw neat di	ammable calcu written on main agrams and fig able data if need	answer book ures (if necess	are strictly to	be obeyed.	prohibited.		
Q-1 A	ttempt the fol	lowing questio	ns:			(14)		
a)	Which of the							
	A) /* commen	nt */ B) //	comment */	C) // con	nment D	D) Both A and D		
b)	What is the fu	ıll form of OOF	?					
	A) Object Ori	ented Program	ming	B) Own Object Programming				
	C) Object Overall Program D) Our Objective					amming		
c)	Who Invented	l C++?						
	A) Dennis Rit	tchie B) Ken	Thompson	C) Brian Kern	ighan D) E	Bjarne Stroustrup		
d)	How many types of Constructor are possible in C++?							
	A) 3	B) 2		C) 1	D) 0			
e)	In C++, the m	embers of a cla	ss are	by d	efault			
	A) Public	B) Prote	ected	C) Static	D) Pi	rivate		
f)	Which of the following operator cannot be overloaded in C++?							
	A) ?:	B) +		C) -	D) %	,		
g)	Which is the correct example of a binary operator?							
	A) -	B) +	C) ++	· · · · · · · · · · · · · · · · · · ·	D) Dereference	ing Operator (*)		
h)	Which of the	following is cal	lled address of					
	A) *	B) %	C) &]	D)_			
i)	Wrapping data and its related functionality into a single entity is known as							
	A) Abstractio	n B) Encaps	ulation	C) Polymorp	hism D) N	Iodularity		
j)	Which is used for memory deallocation in C++?							
	A) dynamic	B) new		C) delete	D) re	ealloc		
k)	Where is the derived class is derived from?							
	A) Derived	B) Base		C) Class	D) E	Both A & B		



l)	>> Operator is kr	nown as	Operator			
	A) Insertion	B) Extraction	C) Final	D) None		
m) What is the full form of STL?						
	A) Simple Template Library		B) Standard Template Library			
	C) Static Type Li	brary	D) Single Type based Library			
n)	n) Which of the following is not a kind of Inheritance?					
	A) Multiple	B) Distributed	C) Multi level	D) Hierarchical		

Attempt any four questions from Q-2 to Q-8

Q-2 A	ttempt all questions	(14)				
a)	Explain the concept of Object Oriented Paradigms (OOPs). (0'					
b)	Explain the use of Constructor and Destructor with the help of example.	(07)				
Q-3 A	Q-3 Attempt all questions					
a)) Explain Friend Function with suitable example					
b)	What is Object? Explain how to create Array of Object for class.					
c)) Write a note on: Dynamic Memory Allocation (DMA)					
Q-4 A	ttempt all questions	(14)				
a)	a) Write a program to overload unary + operator					
b)	Differentiate between Operator Overloading and Operator Overriding	(07)				
Q-5 A	ttempt all questions	(14)				
a)	Explain Inline Function with appropriate example	(05)				
b)	Explain Private, Public, Protected access specifier in details	(05)				
c)	Differentiate between C and C++	(04)				
Q-6 A	ttempt all questions	(14)				
a)	Explain how to define member function outside of a class with the help of example	(05)				
b)	What is Virtual Function? Explain with appropriate example	(05)				
c)	Explain Scope Resolution Operator with example	(04)				
Q-7 A	Q-7 Attempt all questions					
a)	Explain different types of Inheritance with the help of a sample program	(07)				
b)	Write a program to create class (SeatNo, Name) and input data using parameterized	(07)				
	constructor and also print the data					
Q-8 A	ttempt all questions	(14)				
a)	Differentiate: Early binding V/s Late binding	(07)				
b)	Write a program to create super class Employee (EID, Name, Basic_Salary) and	(07)				
	Sub class Gross_Salary (DA, HRA, PF, Net_Salary) using single inheritance. Input data and display it. (DA = 50% of Basic_Salary, HRA = 5% of Basic_Salary, PF = 10% of Basic_Salary, Net_Salary = Basic_Salary + DA + HRA + PF).					

