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SARDAR PATEL UNIVERSITY

B.C.A (SEMESTER-III) EXAMINATION 2022

US03CBCA23: Object Oriented Programming I

Date : 11/11/2022 (Friday)

Time : 02:00 p.m. to 05:00 p.m. **Marks: 70**

Q. 1 Multiple Choice Questions **[10]**

1 In _____ data is hidden and cannot be accessed by external functions.
A. OOP B. POP C. SOP D. None

2 _____ means ability to take more than one form.
A. Inheritance B. Polymorphism C. Data hiding D. Encapsulation

3 _____ is called the insertion or put to operator.
A. & B. << C. >> D. ::

4 _____ function is used to copy one string into another string.
A. strcopy() B. stringcpy() C. strcpy() D. StrCopy()

5 _____is a user define data type.
A. Class B. Variable C. Operator D. Function

6 _____ access specifier is default in class definition.
A. private B. protected C. public D. None of Above

7 By default, main( ) in C++ returns _____.
A. void B. int C. char D. char*

8 Which function is mostly used to initialize string data-member inside the parameterized constructor?
A. strstr( ) B. strlen( ) C. strcpy( ) D. None of these

9 Which one of the following operators can be overloaded?
A. :: B. New C..* E. Sizeof

10 Which one of the following operators cannot be overloaded?
A. The function call ( ) B. += C. >> D. ?:

Q. 2 Short Question (Any TEN) **[20]**

1 What is object – oriented programming?
2 Differentiate variable and constant.
3 List out different types of operators available in C++.
4 Explain cout in C++ with example.
5 List all operations on Array.
6 List all access specifiers and also write its use.
7 Define friend function & list its use.
8 What is the difference between private & protected members of the class?
9 Discuss default arguments briefly.
10 What is Operator Overloading?
11 List out five operators to be overloaded in C++.
12 What are input and output stream?

Q. 3

[A] Explain different data type available in C++. **[05]**

[B] Explain the concept of class & object with example. **[05]**

OR

[A] What is C++? Explain structure of C++. **[05]**

[B] Explain characteristics of OOP in detail. **[05]**

(P.T.O.)

Q. 4

[A]	Explain declaration and initialization of two dimensional array with example.	[05]
[B]	Explain constructor overloading with example.	[05]
	OR	
[A]	Explain basic I/O in C++ with proper example.	[05]
[B]	Explain constant objects with proper example	[05]

Q. 5

[A]	Explain multiple & multilevel inheritance with example.	[05]
[B]	Discuss inheritance in private mode & its effects on accessibility of base-class members.	[05]
	OR	
[A]	Discuss inheritance in public mode & its effects on accessibility of base-class members.	[05]
[B]	Discuss inline functions with appropriate example.	[05]

Q. 6

[A]	Explain binary operator overloading with example.	[05]
[B]	What is file mode? Describe the various file mode operations available.	[05]
	OR	
[A]	Explain the restriction and limitations in overloading operator.	[05]
[B]	Describe the various classes available for file operations.	[05]

—X—