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pages :02

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SARDAR PATEL UNIVERSITY

BCA (3rd – Semester NC) On Demand Examination June 2022

Code No: US03BCA02 : Object Oriented Programming and C++

Wednesday, Date: 15 -06- 2022, Time: 12:00 p.m. to 02:00 p.m.

Note : Right hand figure indicates the marks of each question.

Total 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 of these
- (2) A _____ is a collection of objects of similar type.
(a) Data (b) Object
(c) Class (d) Function
- (3) _____ Means that the code associated with a given procedure call at run time.
(a) Static binding (b) Early binding
(c) Dynamic binding (d) None
- (4) _____ is a user define data type.
(a) Class (b) Variable
(c) Operator (d) Function
- (5) Objects created dynamically with their data members initialized during creation are known as _____ Objects.
(a) nameless (b) Live
(c) Constant (d) Default
- (6) _____ access specifier is default in class definition.
(a) private (b) protected
(c) public (d) None of Above
- (7) Creating a new class using one or more existing classes is known as _____.
(a) Polymorphism (b) Encapsulation
(c) Inheritance (d) Data Hiding
- (8) Which of the following is not a valid argument passing mechanism in C++?
(a) Pass by value (b) Pass by address
(c) Pass by reference (d) Pass by selection
- (9) Which of the following declarations are illegal?
(a) Void *ptr (b) Char *str1 = "xyz"
(c) Char str2 = "abc" (d) Const *int p1
- (10) Which one of the following operators can be overloaded?
(a) :: (b) New
(c) .* (d) Sizeof

Q.2 Fill In the blanks & True False

- (1) _____ is the developer of C++.
- (2) Object without name is known as _____.
- (3) Constructor is special member function because its name is same as the _____ name.
- (4) One base class & multiple derived classes means _____ inheritance.
- (5) >> is known as scope resolution operator. **True Of False**
- (6) Class is a user defines data type. **True Of False**
- (7) In case of multipath inheritance, problem of duplicate data-members is resolved using const keyword. **True Of False**
- (8) A pointer is A variable that stores address of other variable. **True Of False**

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Q.3 Short Questions [Attempt any Ten]

- (1) List out any four header file in C++.
- (2) List out types operator available in C++.
- (3) Define Polymorphism as a concept of OOP.
- (4) List the characteristics of member function.
- (5) List all operations on Array.
- (6) Explain cin in C++ with example.
- (7) What is inline function? Give an example of it.
- (8) Define inheritance & state two advantages of it
- (9) Define friend function & list its use.
- (10) List out five operators to be overloaded in C++.
- (11) List the operators that can't be overloaded?
- (12) What is **this** pointer?

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Q.4 Long Questions [Attempt any Four]

- (1) Explain different data type available in C++.
- (2) Explain features of OOP in detail.
- (3) Explain basic I/O in C++ with proper example
- (4) What is private and public area in class?
- (5) Explain multiple & multilevel inheritance with suitable example.
- (6) Explain the concept of friend function with suitable example
- (7) Describe the various classes available for file operations.
- (8) Explain binary operator overloading with example

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