



SARDAR PATEL UNIVERSITY

B.Sc(CA & IT) (3rd – Semester NC) Examination

Code No:PS03CIIT21 : Computer Programming using C++

Date : 10- 11 - 2022, Time : 02:00 p.m. to 05:00 p.m.

Thursday

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

Total Marks :[70]

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) _____ means "To bind data & functions into a single unit".
(a) Inheritance (b) Polymorphism (c) Data Hiding (d) Encapsulation
- (3) _____ function is used to copy one string into another string.
(a) strcpy() (b) stringcpy() (c) strcpy() (d) StrCopy()
- (4) _____ is used to free/destroy the memory occupied by the objects.
(a) Constructor (b) Destructor (c) Delete (d) None of Above
- (5) _____ function is mostly used to initialize string data-member inside the parameterized constructor.
(a) strstr () (b) strlen () (c) strcpy () (d) None of these
- (6) Creating a new class using one or more existing classes is known as _____.
(a) Polymorphism (b) Encapsulation (c) Inheritance (d) Data Hiding
- (7) _____ of the following operators can be overloaded
(a) :: (b) New (c) .* (d) Sizeof
- (8) The correct function name for overloading the addition (+) operator is
(a) operator + (b) +operator (c) operator(+) (d) operator:+
- (9) Objects created dynamically with their data members initialized during creation are known as _____ Objects.
(a) nameless (b) Live (c) constant (d) Default
- (10) The header file _____ should be included that use input/output statements.
(a) iostream (b) stdio (c) Conio (d) io

Q.2 Short Questions [Attempt any Ten]

[20]

- (1) What is object – oriented programming?
- (2) List out the features of OOP.
- (3) List out any four header file in C++.
- (4) List all operations on Array
- (5) Define destructor and give its example
- (6) Define classes and objects.
- (7) List situations when inline function is not expanded inline.
- (8) What is a virtual base-class? What is the use 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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(P.T.O)

- Q.3** [A] Explain the concept of class & object with example [06]
[B] Differentiate OOP & POP [04]
- OR**
- Q.3** [A] What is C++? Explain structure of C++. [06]
[B] Explain different operator available in C++. [04]
- Q.4** [A] Define array. Explain passing arrays to functions with an example. [06]
[B] Explain constructor overloading with example. [04]
- OR**
- Q.4** [A] Explain destructors with an example. [06]
[B] Explain all operations on Arrays [04]
- Q.5** [A] Define inheritance. List all types of inheritance. Discuss the syntax of defining base-class & derived class [10]
- OR**
- [A] Explain the concept of friend function and virtual functions with suitable example [10]
- Q.6** [A] Explain opening file using open (). [05]
[B] Explain seek(),close() [05]
- OR**
- [A] Explain read(),write() [05]
[B] Describe the various classes available for file operations [05]

X

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