

47



SEAT No. _____

No. of Printed Pages: 02

SARDAR PATEL UNIVERSITY
B.C.A (SEMESTER-III) EXAMINATION 2022
US03BCA51: Object Oriented Programming I

Date : 11/11/2022 (Friday)

Time : 02:00 p.m. to 05:00 p.m.

Q. 1 Multiple Choice Questions

Marks: 70

[10]

- 1 _____ is the developer of C++.
A. Dennis Ritchie B. Ivan Byros C. James Gosling D. Bjarne Strastrup
- 2 A _____ is a collection of objects of similar type.
A. Data B. Object C. Class D. Function
- 3 C++ allows declaration of variables at _____?
A. anywhere in the scope B. Before it is used in executable statement
C. Both (A) and (B) D. None
- 4 _____ constructor contains an object as argument.
A. Default B. Copy C. Parameterized D. None of Above
- 5 For string manipulation _____ header file is included.
A. iostream.h B. ctype.h C. string.h D. conio.h
- 6 _____ access specifier is default in class definition.
A. private B. protected C. public D. None of Above
- 7 _____ is a non-member function which can access private & protected members of some other class.
A. friend function B. virtual function
C. operator function D. pure virtual function
- 8 A pure virtual function is equated to _____.
A. zero B. -1 C. 1 D. NULL
- 9 A pointer is
A. A keyword used to create variable B. A variable that stores address of an instruction
C. A variable that stores address of other variable D. All of the above
- 10 Which of the following declarations are illegal?
A. void *ptr B. char *str1 = "xyz" C. char str2 = "abc" D. const *int p1

Q. 2 Short Question (Any TEN)

[20]

- 1 Define encapsulation as concept of OOP.
- 2 List out the features of OOP.
- 3 List out any four header file in C++.
- 4 Explain cin in C++ with example.
- 5 Define string and write how to declare string in C++.
- 6 Define nameless and arrays of objects.
- 7 Write difference between virtual function & pure virtual function
- 8 Define inheritance & state two advantages of it.
- 9 Discuss default arguments briefly.
- 10 What is Operator Overloading?
- 11 What is this pointer?
- 12 What is the difference between opening a file with constructor function and with open ()?

(1)

(P.T.O)

Q. 3

- [A] Explain usage of header file in C++. [05]
[B] What is C++? Explain structure of C++. [05]

OR

- [A] Differentiate OOP & POP. [05]
[B] Explain usage of header file in C++. [05]

Q. 4

- [A] Explain declaration and initialization of one dimensional array with example. [05]
[B] Explain Copy constructor with example. [05]

OR

- [A] Explain the methods of defining class members with an example. [05]
[B] Explain destructors with an example [05]

Q. 5

- [A] Explain multiple & multilevel inheritance with suitable example. [05]
[B] Discuss briefly – virtual function [05]

OR

- [A] Define inheritance. List all types of inheritance. Explain syntax of defining base-class & derived class. [05]
[B] Discuss inline functions with appropriate example. [05]

Q. 6

- [A] Explain binary operator overloading with example. [06]
[B] Explain read(),write(). [04]

OR

- [A] Describe the various classes available for file operations. [06]
[B] Explain opening file using open (). [04]

— X —
(2)