

[564 - Seat No.: _____
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SARDAR PATEL UNIVERSITY
S.Y.BCA (Third Semester) (CBCS) Examination 2016
Wednesday, 23rd November
02.00 p.m. to 5.00 p.m.
US03CBCA02: Object Oriented Programming and CPP

Maximum Marks: 70

Note: - Answers of all the questions (including multiple choice questions) should be written in the provided answer book only.

Q-1 Multiple Choice Questions. [10]

- 1) _____ means "To bind data & functions into a single unit"
A. Encapsulation B. Inheritance C. Variable D. None.
- 2) 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
- 3) _____ is called as extraction or get from operator.
A. & B. << C. >> D. ::
- 4) The correct function name for overloading the addition (+) operator is
A. operator+ B. +operator C. operator(+) D. operator:+
- 5) _____ is used to free/destroy the memory occupied by the objects.
A. constructor B. destructor C. Operator D. Function
- 6) _____ is/are the types of constructor.
A. Default B. Parameterize C. Copy D. All.
- 7) Which one of the following operators cannot be overloaded?
A. A. += B. >> C. ?: D. The function call ()
- 8) _____ Constructor contains an object as argument...
A. A. Copy B. parameterizes C. Default D. none
- 9) _____ Function is used to copy one string into another string..
A. friend function B. virtual function C. strcpy() D. None
- 10) Which of the following is a valid function prototype in C++?
A. int sum(int a, int b, int c = 0) B. int sum(int a = 0, int b, int c)
C. int sum(int a, int b = 0, int c) D. int sum(int a = 0, int b, int c = 0)

Q-2 Answer the following questions (Any Ten). [20]

- 1 What is **Object - Oriented Programming**?
- 2 Define **Data Hiding** as concept of OOP.
- 3 List out **Type's Operator** available in C++.
- 4 Write syntax for declare & initialize **One Dimensional Array** with example.
- 5 Define **Destructor** and give its example.
- 6 What is C++? Explain **Features of C++**.
- 7 Discuss **Default arguments** briefly.
- 8 List all **Access Specifiers** and also write its use.
- 9 Define **Inheritance & State two Advantages** of it.
- 10 Define **Stream**.
- 11 What are **Input and Output stream**?
- 12 What is the Difference between **Opening a File with Constructor function and With Open ()**?

[P.T.O.]

- Q-3 [A] Differentiate between **Object Oriented Programming** and **Procedural Oriented Programming**. [5]
[B] What is C++? Explain **Structure of C++**. [5]

OR

- Q-3 [A] Explain **Features (Characteristics) of OOP** in detail. [5]
[B] Explain different **Data Type** available in C++. [5]
- Q-4 [A] What do you mean by **Constructors**? What is the use of **Constructors** in C++? Give one example of it.. [5]
[B] How you can create **Arrays Of Objects**? Give an example and explain it. [5]

OR

- Q-4 [A] Explain declaration and initialization of **String** with example. [5]
[B] Explain Different **Methods of Defining Class Members** with an example. [5]
- Q-5 [A] Explain concept of **Virtual Base Class** with example. [5]
[B] Explain **Different types of Inheritance** with example. [5]

OR

- Q-5 [A] Explain the concept of **Friend Function** with suitable example. [5]
[B] Discuss **Inheritance in Public Mode** & its effects on **Accessibility of base-class members** [5]
- Q-6 [A] Explain **Unary and Binary Operator Overloading** with example. List Operator which can not be overloaded. [10]

OR

- Q-6 [A] What is **File Mode**? Describe the various **File Mode Operations** available in CPP. Also Describe the various classes available for **File Operations**. [10]

~~~~~All the best~~~~~