

SC

SEAT No. \_\_\_\_\_

C917

**SARDAR PATEL UNIVERSITY**  
**S.Y.BCA (Third Semester) (CBCS) Examination 2018**  
**Tuesday, 30th October**  
**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) \_\_\_\_\_ is the developer of C++.  
A. Dannis Ritchie    B. Ivan Byros    C. James Gosling    D. Bjarne Straustrup.
- 2) \_\_\_\_\_ refers to fixed value that do not change during the execution of a program.  
A. Constant    B. Variable    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 ()**?

- 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]

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