



Progressive Education Society's
Modern College of Arts, Science & Commerce Ganeshkhind
(Autonomous), Pune – 16
End Semester Examination: March/April 2024
Faculty: Commerce

Program: BBA(Computer Application) Semester: IV SET: B
Program (Specific): BBACA07 Course Type: CC
Class: SYBBA(CA) Max.Marks: 70
Name of the Course: Object Oriented Concept Through CPP
Course Code: 23-BBACA242 Time: 2:30 Hrs.
Paper: -

Instructions to the candidate:

- *There are 4 sections in the question paper. Write each section on separate page.*
- *All Sections are compulsory.*
- *Figures to the right indicate full marks.*
- *Draw a well labelled diagram wherever necessary.*

Section A

Q1) Answer the following

[10 x 1 = 10 marks]

- 1) Which of the following is used to terminate a loop in C++?
a) stop b) exit c) break d) halt
- 2) Comments are included in programs to provide explanations for human readers; and it is denoted by _____.
a) / b) // c) * d) **
- 3) Which of the following is not a valid access specifier in C++?
a) public b) private c) protected d) global
- 4) _____ are basic runtime entities.
a) Data b) Classes c) Objects d) Variables
- 5) What does the sizeof operator return in C++?
a) Size of a variable in bytes b) Size of a data type in bytes
c) Size of an array in bytes d) Size of a pointer in bytes
- 6) The members declared in private section can be accessed by _____.
a) Member functions of same class b) Friend function of class
c) Derived classes d) Member functions of their same class and friend of this class
- 7) What is the correct way to declare a class in C++?
a) class My Class; b) define class My Class;

- c) class My Class { };
- d) create class My Class;
- 8) Constructors are used to ____ the object.
- a) Increment b) Initialized c) Destroy d) Both a & b
- 9) Hybrid inheritance is ____.
- a) Multiple inheritance. b) Multilevel inheritance
- c) Multipath Inheritance d) Both a & b
- 10) An exception is ____ error.
- a) Syntax b) Logical c) runtime d) exception

Section B

Q.2] Answer the Following. (Any 10)

[10x2 =20 M]

- 1) Explain Characteristics of OOP ?
- 2) Write a simple "Hello World" program in C++ .
- 3) What is Input stream ?
- 4) What is Friend Function ?
- 5) What is Static Member Function ?
- 6) Explain usage of 'this pointer'.
- 7) What is Operator Overloading ?
- 8) Difference between Normal function and Inline Function .
- 9) Define Ostream Class.
- 10) Write a syntax of if-else statement.
- 11) What is Catch Block ?
- 12) What is abstract Class ?

Section C

Q3) Answer the following. (Any 4)

[5x4=20 M]

- 1) What is Default constructor? Explain with suitable program.
- 2) What is function Overloading ?
- 3) Explain Hybrid Inheritance with example?
- 4) Write a C++ program to display Prime Numbers between two intervals.
- 5) Write a C++ program to create a class customer which contains data members a c-id , c-name , c-salary. Write member functions to accept and display customer information.
- 6) Write a C++ Program to Remove Duplicates from Sorted Array

Section D

Q4) Answer the Following (Any 4).

[5x4=20M]

- 1) What is Pure Virtual Functions ?
- 2) Explain Tokens in C++.
- 3) Explain Manipulators .
- 4) What is try block ? Explain with example ?
- 5) Write a C++ Program to Print Armstrong Numbers Between 1 to 100.
- 6) What is defining data member ? Explain with Example.

