



SAT-003-2033002

Seat No. 30705

B. C. A. (Sem. III) (CBCS) (W.E.F. 2019) Examination

December - 2021

**CS-14 : C++and Object Oriented Programming
(New Course)**

Faculty Code : 003

Subject Code : 2033002

Time : $2\frac{1}{2}$ Hours]

[Total Marks : 70

Instructions : Attempt any Five questions.

- 1 (A) Objective type questions : 04
- (1) Full form of OOP.
 - (2) Wrapping up of data and function together is known as _____.
 - (3) In POP languages, the main focus is on _____.
 - (4) C++ was developed by _____.
- (B) Explain Scope resolution operator. 02
- (C) Explain structure of C++ program. 03
- (D) What is OOP ? List and explain basic concepts of OOP. 05
- 2 (A) Objective type questions : 04
- (1) What is identifier ?
 - (2) What is a derived data type ?
 - (3) What is Expression ?
 - (4) What is C++ ?
- (B) What is memory management operator ? 02
- (C) Explain the concept of namespace. 03
- (D) Write the benefits and applications of OOP. 05
- 3 (A) Objective type questions : 04
- (1) A class defined inside a class is known as _____.
 - (2) A static member variable is initialized to _____ when an object is created of its class.
 - (3) The members of a class are _____ by default.
 - (4) Full form of MIL.

- (B) What is class ? 02
- (C) Explain static data member and member function in class. 03
- (D) What is constructor ? Explain all types of constructor in detail. 05
- 4 (A) Objective type questions: 04
- (1) What is member function ?
- (2) What is Local class ?
- (3) What is copy constructor ?
- (4) What is explicit constructor ?
- (B) What is Destructor ? 02
- (C) Explain friend function in brief. 03
- (D) Explain array within class with example. 05
- 5 (A) Objective type questions : 04
- (1) The benefit of inheritance is _____.
- (2) If a class is deriving from a derived class, it is known as _____ inheritance.
- (3) Class A : public B, public C is example of _____.
- (4) How many types of inheritance in C++ ?
- (B) What is Operator Overloading ?- 02
- (C) Write down rules for operator overloading.- 03
- (D) What is Inheritance ? Explain the different types of inheritance in detail. 05
- 6 (A) Objective type questions : 04
- (1) What is Containership ?
- (2) What is Abstract class ?
- (3) What is Derived class ?
- (4) What is Hierarchical inheritance ?
- (B) How many visibility modifiers are available in C++ ? 02
- (C) List out types of conversion and explain any one with example. 03
- (D) How to overload binary operator using friend function ? Explain with example. 05
- 7 (A) Objective type questions : 04
- (1) Full form of RTTI.
- (2) If the name and prototype of functions in both the base class and derived class are same, then which version of the function will be called by the derived class object ?

- (3) What would be the output of the following code ?
 Float a =56.789;
 cout<<setprecision(1)<<a;
- (4) Which flag is used to specify hexadecimal number format ?
- (B) Explain get() function. 02
- (C) What is RTTI ? Explain in brief. 03
- (D) Explain C++ stream classes. 05
- 8 (A) Objective type questions : 04
- (1) What is pointer to Object ?
- (2) What is pure virtual function ?
- (3) What is formatted I/O operation ?
- (4) What is the Use of manipulators ?
- (B) Explain getline() function. 02
- (C) Explain this pointer with an example. 03
- (D) Explain virtual function in detail with example. 05
- 9 (A) Objective type questions : 04
- (1) Which function is used to find the current position of the output pointer ?
- (2) Full form of STL.
- (3) Which block handles the exception ?
- (4) An exception can be generated by _____.
- (B) Explain seekg(). 02
- (C) Explain class template with example. 03
- (D) Explain File mode in details. 05
- 10 (A) Objective type questions : 04
- (1) What is Error handling ?
- (2) What is a Sequential I/O operation.
- (3) What is Generic programming ?
- (4) What is a File pointer ?
- (B) Explain tellg(). 02
- (C) Explain file stream classes. 03
- (D) Explain Exception handling in detail with example. 05
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