

Paper Code: A02-06
Subject: Computer Programming Using C++

PART-A

Q.1.

Fill in the blanks:

1. When an object takes many forms, it is called as ----- (1x10)
2. The object is an ----- of the class in C++.
3. Total ----- access specifiers in OOPS for C++ are available.
4. The default, parameterized and ----- constructors are available in C++.
5. The run-time and ----- time polymorphism are available in C++.
6. ----- is the scope resolution operator.
7. The ----- type of inheritance does a single-level inheritance support.
8. Another name of the generic class is ----- class.
9. ----- shows polymorphism.
10. ----- polymorphism is used for the overloading of functions.

Q.2.

State True or False:

1. The default constructor doesn't require any paramters. (1x10)
2. Dennis Ritchie developed object-oriented programming.
3. No instance of an abstract class can be created.
4. The constructor function can be constant.
5. Friend is also a type of constructor.
6. In 1970's OOPS concept first came into picture.
7. Encapsulation ensures code-reusability.
8. Iostream.h header file is required in C++ to use OOP.
9. Platform independence is also a OOPS concept.
10. Friend function is not a member of the class.

Q.3

Multiple choice questions:

1. In which of the following is memory allocated for the objects (1x10)
(a) RAM (b) ROM (c) CACHE (d) HDD
2. Select the following which shows the correct constructor.
(a) ()class_name (b) -class_name (c) class_name (d) ~class_name
3. To access data members of a class, which of the following is used?
(a) Dot operator (b) Arrow operator (c) Dot or Arrow operator, as required (d) Dot, arrow or direct call
4. Under which pillar of OOPS do base class and derived class relationships come?
(a) Polymorphism (b) Inheritance (c) Encapsulation (d) Abstraction
5. Virtual function should be
(a) Public (b) Private (c) Protected (d) default
6. What type of inheritance does single-level inheritance support?
(a) compile-time (b) run-time (c) multiple inheritance (d) language independent
7. Which of the following is not a type of inheritance?
(a) Multiple (b) Multilevel (c) Distributed (d) Hierarchical
8. Which of the following is not an OOPS concept?
(a) inheritance (b) compilation (c) polymorphism (d) encapsulation
9. Who developed object-oriented programming?
(a) Dennis Ritchie (b) Charles Babbage (c) Alan Kay (d) Andrea Ferro

10. Why is reusability a desirable feature?
(a) reduces compilation time (b) decreases testing time (c) lowers maintenance cost (d) none

PART-B

(Attempt any five questions, each carry equal marks)

- Q.4. (a) What are class and object in C++. (5x2)
(b) What are different data types available in C++?
- Q.5. (a) Write a program of multiplication table of 2. (5x2)
(b) Distinguish between struct and class.
- Q.6. (a) Write a program to divide two numbers entered by user. (5x2)
(b) Write about virtual functions and its utilities in C++.
- Q.7. (a) What are destructors in C++? (5x2)
(b) What is an abstract class and what is its use
- Q.8. (a) Explain data hiding and encapsulation. (5x2)
(b) Explain OOPS in C++
- Q.9. (a) Explain operator overloading with example (5x2)
(b) Explain multiple and multilevel inheritance
- Q.10.(a) Is de-structor overloading possible? Explain the reason (5x2)
(b) Distinguish between C and C++ with examples.

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