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SARDAR PATEL UNIVERSITY
B. Sc. Examination, SEMESTER – V: December-2020
COMPUTER SCIENCE

US05CCSC01: OBJECT ORIENTED PROGRAMMING USING C++

Date: 24/12/2020, Thursday

Time : 02:00pm to 04:00pm

Total Marks: 70

Q.1 Multiple choice of Question.

[10]

1. _____ means ability to take more than one form.
A. Inheritance B. Polymorphism C. Data hiding D. Encapsulation
2. _____ means that the code associated with a given procedure call at run time.
A. Static binding B. Early binding C. Dynamic binding D. None
3. _____ is the developer of C++.
A. Dennis Ritchie B. Ivan Byros C. James Gosling D. Bjarne Strastrup
4. _____ operator is the same as "scanf()" function used in C.
A. cin B. cout C. scanf D. printf
5. _____ operator is also known as insertion or put-to operator.
A. cin B. cout C. > D. None of above
6. Which is/are a valid operations on array.
A. sorting an array B. finding maximum from array
C. matrix multiplication D. None of Above
7. By default, main() in C++ returns _____.
A. void B. int C. char D. char*
8. Which of the following function allows multiple lines of input through the keyboard?
A. gets() B. getline() C. getch() D. None of above
9. The correct function name for overloading the addition (+) operator is _____.
A. operator+ B. +operator C. operator(+) D. operator:+
10. Which statement about operator overloading is false?
A. New operators can never be created.
B. Certain overloaded operators can change the number of arguments they take.
C. The precedence of an operator cannot be changed by overloading.
D. Overloading cannot change how an operator works on built-in types.

Q.2 Fill up the blank and/or True/False.

[08]

1. _____ refers to fixed value that do not change during the execution of a program.
2. _____ is called the insertion or put to operator.
3. _____ function is used to copy one string into another string.
4. Constructor is special member function because its name is same as the _____ name.
5. strcpy() function is mostly used to initialize string data-member inside the parameterized constructor. [True / False]
6. Pass by selection is not a valid argument passing mechanism in C++. [True / False]
7. To overload the += operator The += operator must be explicitly overloaded. [True / False]
8. new operators can be overloaded. [True / False]

[1]

Q.3 Answer the following questions in short (Any 10) :

[20]

1. Define class & object.
2. Define encapsulation.
3. List out any four header file in C++.
4. Explain cout in C++ with example.
5. Explain cin in C++ with example.
6. Write syntax for declare & initialize one dimensional array with example.
7. Discuss default arguments briefly.
8. What is inline function? Give an example of it.
9. What is the difference between private & protected members of the class?
10. What is Operator Overloading?
11. What is an operator function? Describe the syntax of an operator function.
12. Can we overload destructor? Explain your answer.

Q.4 Answer the following questions in LONG (Any 4) :

[32]

1. Explain different operator available in C++.
2. Explain different data type available in C++.
3. Explain declaration and initialization of two dimensional array with example.
4. Define array. Explain passing arrays to functions with an example.
5. Explain multiple & multilevel inheritance with suitable example.
6. Explain the concept of friend function with suitable example.
7. Explain binary operator overloading with example.
8. Explain unary operator overloading using friend function. Give example.

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