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SARDAR PATEL UNIVERSITY

S.Y.B.C.A. (Semester - III) (CBCS) EXAMINATION, November – 2013

US03BCBA02 : Object Oriented Programming And C++

Date:18/11/2013 MONDAY

Time:02:30 to 05:30

Total Marks : 70

Q.1 Multiple choice questions:

[10]

1. _____ is known as scope resolution operator.
(a) :: (b) : (c) >> (d) <<
2. _____ is basic run time entity in object-oriented system.
(a) class (b) object (c) data (d) function
3. _____ 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
4. _____ means ability to take more than one form.
(a) inheritance (b) data hiding (c) encapsulation (d) polymorphism
5. Constructor is special member function because its name is same as the _____ name.
(a) object (b) variable (c) class (d) function
6. _____ function is used to copy one string into another string.
(a) strcpy() (b) stringcpy() (c) strcopy() (d) StrCopy()
7. Creating a new class using one or more existing classes is known as _____.
(a) data hiding (b) inheritance (c) encapsulation (d) polymorphism
8. _____ is a non-member function which can access private & protected members of some other class.
(a) operator (b) virtual (c) pure virtual (d) friend
9. Which one of the following operators cannot be overloaded?
(a) + (b) >> (c) += (d) ?:
10. A pointer is _____.
(a) A keyword that create variables (b) A variable that stores address of instruction
(c) A variable that stores address of other variable (d) All of the above

Q.2 Attempt any ten out of twelve.

[20]

1. List out data types available in C++.
2. Differentiate variable and constant.
3. List out any four header file in C++.
4. Define string and write how to declare string in C++.
5. Define cin and cout in C++.
6. Define destructor and give its example.
7. Discuss default arguments briefly.

8. Define virtual function.

9. What is the difference between private & protected members of the class?

10. What are input and output stream?

11. List out four operators to be overloaded in C++.

12. What is Operator Overloading?

Q.3 (a) What is C++? Explain structure of C++. [5]

(b) Explain the concept of class & object with example. [5]

OR

(a) What is OOP? Explain features of OOP in detail. [5]

(b) Explain different operators available in C++. [5]

Q.4 (a) Explain constructor overloading with example. [5]

(b) Explain declaration and initialization of one & two dimensional array with example. [5]

OR

(a) Explain types of objects with example. [5]

(b) How you can create arrays of objects? Give an example and explain it. [5]

Q.5 Define inheritance. List all types of inheritance with example. [10]

OR

Q.5 Discuss inline function and friend function with appropriate example. [10]

Q.6 (a) Explain binary operator overloading with example. [5]

(b) What is file mode? Describe the various file mode operations available. [5]

OR

Q.6 (a) Explain unary operator overloading with example. [5]

(b) Explain read(), write(), seek(), close() [5]

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