

SEAT No. _____

[93]

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Sardar Patel University
External Examination

B. Sc. Computer Science – Vth Semester
US05CCSC01 : Object Oriented Programming Using C++

9th April, Monday - 2018

Time : 02:00 PM to 05:00 PM

Total Marks : 70

Q.1 Select an appropriate option.

10

1. _____ is basic run time entity in object-oriented system.
(a) Data (b) Object (c) Class (d) Function
2. _____ is known as insertion or put to operator.
(a) & (b) << (c) >> (d) ::
3. _____ means "To bind data & functions into a single unit".
(a) Inheritance (b) Polymorphism (c) Data hiding (d) Encapsulation
4. Constructor is special member function because its name is same as the _____ name.
(a) object (b) variable (c) function (d) class
5. Objects created dynamically with their data members initialized during creation are known as _____ objects.
(a) nameless (b) live (c) constant (d) default
6. For string manipulation _____ header file is included.
(a) iostream.h (b) ctype.h (c) string.h (d) conio.h
7. One base class & multiple derived classes means _____ inheritance.
(a) multiple (b) hierarchical (c) multilevel (d) hybrid
8. Defining a function with same name but different types and different number of arguments is known as _____.
(a) Inheritance (b) Function overriding
(c) Function overloading (d) Inline function
9. Which one of the following operators can be overloaded?
(a) :: (b) new (c) .* (d) sizeof()
10. A _____ is used to store address of other variable.
(a) constant (b) pointer (c) variable (d) all of the above

Q.2 Answer in short. **(Attempt any TEN)**

20

1. Define terms class and object.
2. State relational and logical operators used in C++.
3. Explain reference variable with example.
4. What are the uses of cin and cout statement.
5. Explain how to initialize one dimensional array.

(P.T.O.)

6. Explain uses of destructor with example.
7. Explain inline function in brief.
8. What is the difference between private and protected members of the class?
9. State difference between virtual function & pure virtual function.
10. Can we overload destructor? Explain your answer.
11. List out the operators that cannot be overloaded.
12. What is stream? Define input and output stream.

- Q.3 [a] Which basic terminology used in C++? Explain any two in detail. 5
 [b] Write notes on different data types available in C++. 5

OR

- Q.3 [a] What is loop? Which looping structure used in C++? Explain any two loop with proper example. 5
 [b] Explain different types of if statements in detail. 5

- Q.4 [a] What is constructor? List different types of constructors used in C++. Explain any one in detail. 5
 [b] Write notes on nameless object and live object. 5

OR

- Q.4 [a] Write details notes on array of object. 5
 [b] List string functions used in C++. Explain any two with example. 5

- Q.5 What is inheritance? List and explain different types of inheritance with syntax and example. 10

OR

- Q.5 Write details notes on (i) friend function (ii) virtual base class. 10

- Q.6 [a] What is overloading? Explain binary operator overloading. 5
 [b] Explain unary operator overloading using friend function. 5

OR

- Q.6 [a] What is file mode? Describe the various file mode operations available in C++. 5
 [b] Explain read(), write() and close() statement with example. 5

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