

[119]

Seat No : _____
SARDAR PATEL UNIVERSITY
SYBCA - 3rd Semester || 2019

No. of Printed Pages : 2

US03BCA23 || Object Oriented Programming-1

Date : 20/11/2019, Wednesday
Time : 2.00 to 5.00 pm

Marks : 70

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Q-1 Select the correct option for each of the followings: 10

- 1 _____ is basic run time entity in object-oriented system.
a) Class b) Object c) Data d) Function
- 2 _____ is process by which objects of one class get properties of other class.
a) Inheritance b) Polymorphism c) Data Hiding d) Encapsulation
- 3 _____ is called the insertion or put to operator.
a) & b) << c) >> d) ::
- 4 _____ constructor contains an object as argument.
a) default b) copy c) parameterized d) none of these
- 5 Object without name is known as _____ object.
a) nameless b) live c) constant d) default
- 6 One base class having multiple derived classes means _____ inheritance.
a) Multiple b) hierarchical c) multilevel d) hybrid
- 7 Defining a function with same prototype in base and derived class is _____.
a) inheritance b) function overriding c) function overloading d) inheritance
- 8 _____ operator cannot be overloaded.
a) .* b) :: c) sizeof d) all of these
- 9 Member function has _____ arguments for unary operator overloading.
a) 1 b) 0 c) 2 d) 3
- 10 While opening a file we need to pass _____ to the constructor.
a) filename b) filesize c) both a and b d) none of these

Q-2 Do as directed (Attempt any 10): 20

- 1 Explain class in brief with example.
- 2 Explain polymorphism in brief.
- 3 Explain for loop with example.
- 4 Explain cout in brief.
- 5 List and explain all access specifiers in brief.
- 6 Explain nameless object.
- 7 Explain default argument with example.
- 8 Define Inheritance and list all its types.
- 9 Write syntax of defining a derived constructor.
- 10 Which operators cannot be overloaded?
- 11 Explain input and output stream file stream.
- 12 List different file mode parameters with their meaning.

Q-3 Do as directed.

- A Explain the structure of a C++ program.
- B Differentiate POP and OOP.

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OR

Q-3 Do as directed.

- A Explain basic data types in C++. 5
- B Explain reference variable with example. 5

Q-4 Do as directed.

- A Define constructor and list its characteristics. 5
- B Explain array of objects with example. 5

OR

Q-4 Do as directed.

- A Explain 1-D array with example. 5
- B Explain parameterized constructor with example. 5

Q-5 Do as directed.

- A Explain function overloading with example. 5
- B Explain friend function with example. 5

OR

Q-5 Do as directed.

- A Explain virtual function with example. 5
- B Explain multilevel inheritance with example. 5

Q-6 Explain different ways to open a file with example. 10

OR

Q-6 Explain binary operator overloading with example. 10

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