

313304

12526

3 Hours / 70 Marks

Seat No.

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- Instructions* – (1) All Questions are *Compulsory*.
(2) Answer each next main Question on a new page.
(3) Figures to the right indicate full marks.
(4) Assume suitable data, if necessary.
(5) Use of Non-programmable Electronic Pocket Calculator is permissible.
(6) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

- 1. Attempt any FIVE of the following :** **10**
- a) Define object with example.
 - b) Define constructor. List its types.
 - c) List the basic concepts of oop.
 - d) State the syntax of class declaration in C++.
 - e) State function overloading.
 - f) Write a process to create and initiative pointer.
 - g) Define Inheritance. List its types.
- 2. Attempt any THREE of the following :** **12**
- a) Write a process to define member functions outside the class.
 - b) Write a program in C++ to demonstrate constructor overloading.

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- c) Differentiate between compile-time and run-time polymorphism with examples.
- d) Explain multiple inheritance with suitable example.

3. Attempt any THREE of the following : 12

- a) Explain the concept of virtual functions with suitable example.
- b) Write a program to demonstrate unary operator overloading using member function.
- c) Explain the use of 'friend' function with example.
- d) Explain the concept of constructor in Derived class with suitable example.

4. Attempt any THREE of the following : 12

- a) Explain file handling modes with suitable example.
- b) Write a program to read and write data in file.
- c) Write a program to demonstrate the use of 'this' pointer.
- d) Define copy constructor and explain its use with example.
- e) Differentiate between class and structure in C++.

5. Attempt any TWO of the following : 12

- a) Write a program to demonstrate single and multilevel inheritance.
- b) Explain types of files in file handling.
- c) Explain the concept of virtual base class with a suitable example.

6. Attempt any TWO of the following : 12

- a) Develop a program in C++ that includes, constructor and destructor.
- b) Write a program to count no. of lines in file.
- c) Describe the process of memory allocation for object with suitable diagram.