

**2014**

*Time : 3 hours*

*Full Marks : 100*

*Candidates are required to give their answers in their*

*Own words as far as practicable.*

*The questions are of equal value.*

*Answer any **five** questions, in which*

*Question no. 1 is compulsory.*

**1. Choose the correct answer of the following :**

**(a) Which of the functions accepts string with blank spaces ?**

- (i) **Cin**                                  (ii) **Scanf ( )**  
(ii) **Getline**                              (iv) **None**

**(b) The manipulator endl is equivalent to :**

- (i) **\n**  
(ii) **\t**  
(iii) **\b**  
(iv) **None**

**(c) Which statement can only work for equality comparisons :**

- (i) **If**                                      (ii) **switch**  
(ii) **For**                                  (iv) **While**

**(d) A destructor takes :**

- (i) **One argument**                  (ii) **Two arguments**

- (iii) Three arguments      (iv) Zero argument
- (e) The fields in class of a C++ program are by default :
- (i) Protected
- (ii) Public
- (iii) Private
- (iv) None of the above
- (f) Operator in C++ can be overloaded using the function named :
- (i) Overload                      (ii) Op + Ovr
- (iii) Ovr – op                      (iv) None
- (g) What will be the result of the expression 13 & 25 :
- (i) 38                      (ii) 25
- (iii) 09                      (iii) 12
- (h) Which of the following cannot be passed to a function?
- (i) Reference variable              (ii) Arrays
- (iii) Class objects                      (iv) Header files
- (i) Which of the following operator could not be overloaded ?
- (i) ? :                      (ii) +
- (iii) New                      (iv) Hierarchical

2. What is object oriented programming ? Write down the various features of the object oriented programming.
3. How is a function overloading and overriding. Explain with example.
4. What is a virtual function ? Why do we need virtual functions? When do we make a virtual function “Pure” ?

5.
  - (a) Explain the various features of Java.
  - (b) List the basic data types used in java. Explain with suitable example.
6. Explain inheritance and types of inheritance along with its example in java.
7. Explain the life cycle of java Applets. Also create an applet in which one string moves from left to right.
8. What is an interface? How to implement interface, discuss with suitable example. What are the difference between interface and class.
9.
  - (a) What is variable size array ? Write a program to explain the use of variable Size array in java.
  - (b) What is the need of static method? Explain why main method in java is always Static.
10. What do you mean by multithreading ? Compare with multitasking. What do you Mean by the life cycle of thread?

