2008

TIME: 3 Hours

Full Marks: 75

Candidate are required to give their answers in their own words as far as practicable.

- i) Answer any five questions including Q. No. 1 is compulsory
- ii) All questions have equal value
- 1. a) Choose the correct answer:
 - i) C++ Language was invented by
 - a) Bjarne stroustrup b) Dennis M Ritchie c) Ken Thompson d) None of these
 - ii) The packing of data and functions into a single component is known as:
 - a) Encapsulation b) Polymorphism c) Abstraction
 - d) None of these
- iii) Object oriented programming is popular because
 - a) User can define user defined data types
 - b) Programming statements are easy
 - c) It is easy to find bugs and errors
 - d) All of the above
- iv) The EXISTING CLASS CAN BE REUSED BY
 - a) Inheritance b) Polymorphism c) Dynamic binding d) Abstraction
- v) Composition of objects in a class is known as
 - a) Delegation b) Inheritance c) Polymorphism d) None of these.

- B. State whether the following statements are true or false:
 - i) In procedure oriented programming all data are shared by all functions.
 - ii) One problem with OOPS is that once a class is created it can never be changed.
 - iii) Object oriented approach cannot be used to creat data base
 - iv) Object oriented programs are executed much faster than conventional programs.
 - v) Inheritance means the ability to reuse the data value of one object by objects.
- 2. What is object oriented programming? Distinguish between the data abstraction and data encapsulation.
- 3. What do you mean by overloading of a function? when do you use this concept? Describe the different styles of writing prototypes.
- 4. What are objects and classes? what is friend function? When are the merits and demerits of using a friend functions?
- 5. What is a constructor? how do we invoke a constructor functions? Describe the importance of destructors.
- 6. What are different forms of inheritance? Give an example for each. what is a Virtual base class?
- 7. What does polymorphism mean in C++ language? What does this pointer point to? What are the applications of this pointers?
- 8. What is Artificial intelligence? Briefly explain the various components of artificial intelligence.
- 9. Describe the difference among switch bridge and Hub.
- 10. a) What is quick sort? writeb) Sort the following No. using sort:
 - 12 34 5 78 4 56 10 23 1 45 63

