AH– 1342 CV-19 *S*

Time: Three Hours] [Maximum Marks: 100
[Minimum Marks: 33

Note: Answer from all the Units and Question Number 1 is compulsory. The figures in the right-hand margin indicate marks.

Q.1 Choose the correct Answer of following 2X10=20

a. OOPS is based on
    i. Top down approach
    ii. Bottom up approach
    iii. Both of these
    iv. None of these

b. bool data types in C++ is used for
    i. Logical values   ii. Integer values   iii. String values iv. Real values

c. Void pointer is used for which variable
    i. int types   ii. Char type   iii. function type iv. Any type

d. Formal arguments are used in
    i. function prototypes ii. Function definition iii. function call iv. Return values.

e. Copy Constructor has following number of arguments.
    i. One ii. Two iii. Zero   iv. Not specific

f. State members can be accessed by
    i. any member of class ii. Through Object iii. Only static member iv. None of these

g. Function overloading cannot be done by changing
    i. type of argument ii. Sequence of argument iii. Number of argument iv. Return types.

h. Operator Overloading does not means
    i. Creating new operator ii. Making existing operator to work additional task
    iii. both of these   iv. None of these

i.   Protected members of class can be inherited
    i.   True ii. False

j. Exception handling means
    i. avoiding exception ii. Managing exception iii. stopping exception
    iv. All of these.

Unit-I

Q. 2. What are features of OOPs? Explain need of OOPs. 16

Or

Write a program in C++ to multiply two 3X3 matrix. Explain steps in your program.

Unit-II

Q.3. Write a program to find a number is prime or not using recursion. Explain Concept of
    recursion. 16

Or

What are constructor? Explain their types & use. How Constructor deffers from destructor.

Unit-III

Q. 4. What are Constructor? Explain their types & use. How Constructor deffers from destructor. 16

Or

Create a class for customer in banking system. Declare five objects for it. Take Input for details & display them.

Unit-IV

Q. 5. Write a program to overload + and = = Operator for String. 16

Or

Explain function overloading with suitable example. Why function overloading is possible in C^{++} not in C language?

Unit-V

Q.6. What do you mean by inheritance Explain types & modes of inheritance in C^{++}. 16

Or

What are virtual functions? what do you mean by pure virtual function? Explain Concept of overriding of function.