4th Sem / Branch : Computer / IT

Subject:- Object Oriented Programming using C++

Time : 3Hrs.   M.M. : 100

SECTION-A

Note: Multiple choice questions. All questions are compulsory   (10x1=10)

Q.1 Which of the following best defines a class ? (CO1)
a) Parent of an object
b) Instance of an object
c) Blueprint of an object
d) Scope of an object

Q.2 Which is not feature of OOP in general definitions ? (CO1)
a) Code Reusability
b) Abstraction
c) Inheritance
d) Duplicate/Redundant data

Q.3 Which feature of OOP illustrated the code reusability ? (CO6)
a) Inheritance   b) Encapsulation
c) Abstraction   d) Polymorphism

Q.4 ____ refers to the ability of a variable, function or object to take on multiple forms.
a) Constructor   b) Polymorphism

c) Encapsulation   d) Inheritance

Q.5 Which of the following is Access Modifiers in OOPs?
a) Public   b) Private
c) Protected   d) All of the above

Q.6 Which of the following access specifier is used as a default in a class definition ?
a) Private   b) Public
c) Friend   d) Protected

Q.7 Which of the following is not a type of inhertance
a) Multiple   b) Multilevel
c) Distributive   d) Hierarchical

Q.8 How many loops are there in C++
a) 1   b) 2
c) 3   d) None of the above

Q.9 Which of the following operators cannot be overloaded ?
a) Static function   b) Virtual function
c) Operator function   d) Const function

Q.10 The feature by which one object can interact with another object is _____ ?
a) Message reading   b) Data Transfer
c) Constructor   d) Message Passing

SECTION-B

Note: Objective type questions. All questions are compulsory.   (10x1=10)

Q.11 Define Class .   (CO-3)

Q.12 Define Destructor   (CO-3)

Q.13 What do you mean by Array .   (CO-2)

Q.14 A private member variable of class cannot be accessed from outside the class   (T/F). (CO-3)

Q.15 _____ is a relational operator.   (CO-5)

Q.16 _____ is a type of Inheritance   (CO-6)

Q.17 Inline functions cannot be used with classes
                                             (T/F) (CO-4)

Q.18 When there is multiple definition of same name of the function it is _____   (CO-5)

Q.19 ____ is defined as sequence of bits and bytes. (CO-8)

Q.20 Define File Pointer .   (CO-8)

SECTION-C

Note: Short answer type questions. Attempt any twelve questions out of fifteen questions.   (12x5=60)

Q.21 List different types of control structures in C++.
                                             (CO-2)

Q.22 Differentiate between procedure oriented Programing and object oriented programming .
                                             (CO-1)

Q.23 Write a program to check Whether a given number is even or odd .   (CO-2)

Q.24 Discuss various applications of oops .   (CO-1)

Q.25 Difference between public and private data members of a class.   (CO-3)

Q.26 Explain how dynamic memory allocation is done by using 'new' and 'delete' operator.   (CO-3)

Q.27 Elaborate inline functions .   (CO-4)

Q.28 Explain Friend function and its characteristics

(CO-4)

Q.29 Differentiate between Early binding and Late Binding .   (CO-7)

Q.30 List and explain various types of Inheritance.(CO-6)

Q.31 Describe scope resolution operator term with an example.   (CO-2)

Q.32 Write a note on constructor .   (CO-3)

Q.33 What are pure virtual functions. Explain   (CO-7)

Q.34 Define polymorphism and its types.   (CO-7)

Q.35 What is file. Elaborate different components of a file.
                                             (CO-8)

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions.   (2x10=20)

Q.36 What do you mean by OOP. List various advantages and disadvantages of OOPS.   (CO-6)

Q.37 Write a note on .
    (a) Abstract Class   (CO-7)
    (b) Header files   (CO-2)
    (c) Encapsulation   (CO-1)

Q.38 Explain the need of operator overloading in C++. Overload any relational operator using operator overloading function   (CO-5)

Note: Course Outcome (CO) mentioned in the question paper is for official purpose only .