Register No: …….

B.E. DEGREE EXAMINATIONS: APRIL/MAY 2011

Fourth Semester

ELECTRICAL AND ELECTRONICS ENGINEERING

U07EE403: Object Oriented Programming

Time: Three Hours **Maximum Marks: 100**

Answer ALL Questions:-

PART A (10 x 1 = 10 Marks)

1. Objects may communicate with each other through _____

   a) Data b) functions c) abstraction d) Programs

2. _____ refers to fixed values that do not change during the execution of the program

   a) Variable b) Data c) Constant d) Constructor

3. A data member of a class can be declared as a _____ and is normally used to maintain values common to the entire class.

   a) Dynamic b) Static c) Constant d) Array

4. What purpose do you use the constructor?

   a) Initialize variables b) Allocate memory

   c) Initialize variables and allocate memory d) Initialize functions

5. Operator Overloading is called

   a) Dynamic Polymorphism b) Static class

   c) Runtime polymorphism d) Compile time polymorphism

6. A class can inherit properties from more than one class which is known as

   a) Multilevel inheritance b) Multiple Inheritance

   c) Single Inheritance d) Hierarchical Inheritance

7. All Java types are

   a) Machine Independent b) fixed size

   c) Machine independent & fixed size d) Variable size & Machine Dependent

8. Which method is used to find the size of an array?

   a) size( ) b) length( ) c) length d) find( )

9. Applet enters the running state when the system calls the _____method of Applet Class

   a) init( ) b) start ( ) c) stop( ) d) load( )

10. Java permits as to set the priority of the thread using the method

a) setPriority( ) b) setThread( ) c) putPriority( ) d) getPriority( )

PART B (10 x 2 = 20 Marks)

11. How does object–oriented approach differ from object –based approach?
12. Define function prototyping.
13. Describe Arrays of objects with example.
14. What is a constructor?
15. Define operator overloading.
16. What is an abstract class?
17. What are the command line arguments?
18. How does String class differ from the StringBuffer class?
19. Draw the state transition diagram of the thread.
20. Name some of the built in Exceptions.

PART C (5 x 14 = 70 Marks)

21. a) (i) Explain about basic concepts of object-oriented programming (10)

(ii) Write notes on Data types in C++. (4)

(OR)

b) (i) Discuss about Call by reference and Return by reference with examples. (10)

(ii) Explain about inline function. (4)

22. a) Discuss the following concepts with example in C++

(i) Static Data & Member functions (7)

(ii) Friend functions (7)

(OR)

b) Define Destructor. Explain about various types constructors with example code in C++.

23. a) Explain about three types of data conversion in C++.

(OR)

b) Explain the following C++ Programming concepts with example

(i) Virtual Base class (7)

(ii) Virtual functions (7)

24..a) (i) Discuss about various features of JAVA in detail. (10)

(ii) Write notes on Access specifiers or Controls (4)

(OR)

b) (i) What is inheritance? Discuss about various types of inheritance in JAVA. (10)

(ii) Explain about the data types in JAVA. (4)

25. a) (i) Define Applet. Explain about Applet life cycle with example program. (10)

(ii) Explain Applet tag with all its attributes. (4)

(OR)

b) (i) What is an interface? Explain the various forms of implementing interfaces. Give examples with Java Code. (10)

(ii) Define packages. Explain about Java API packages. (4)

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