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4E2016**4E2016****B.Tech. IV Semester (Old Back) Examination, June/July - 2015****Information Technology****4IT3(O) Object Oriented Programming****CS,IT****Time : 3 Hours****Maximum Marks : 80****Min. Passing Marks : 24****Instructions to Candidates:**

Attempt any five questions, selecting one question from each unit. All questions carry equal marks. (Schematic diagrams must be shown wherever necessary. Any data you feel missing suitably be assumed and stated clearly. Units of quantities used/calculated must be stated clearly.

Unit - I

1. a) Discuss all features of object oriented programming. (8)
- b) Write difference between OOP and POP. (8)

OR

1. What do you understand by programming paradigm? Explain various types of programming paradigm. (16)

Unit - II

2. a) What is Inheritance? Discuss types of inheritance and accessibility of public, protected private member variables of super class (s) is the subclass (b).(10)
- b) Explain polymorphism with suitable example. (6)

OR

2. What is Constructor? Why we need constructor? Explain various types of constructor with suitable example. (16)

Unit - III

3. a) What is operator overloading? Write a program to overload a binary operator. (8)
- b) What is friend function? Explain friend function with suitable e.g. (8)

OR

3. What are the class templates and container classes? Write code to define any container class using class templates. (16)

Unit - IV

4. a) Is there any difference between method overloading and method overriding. Explain with suitable example. (8)
- b) What is Java byte code? Explain working of JVM. (8)

OR

4. What is object? Explain the concept of returning and passing object as parameter. (16)

Unit - V

5. a) What is Interface? Explain it with suitable example. (8)
- b) Explain string handling and string constructor. (8)

OR

5. Write a short note on:
- a) Applet fundamentals
- b) String constructor
- c) Abstract class
- d) String buffer class (4×4=16)