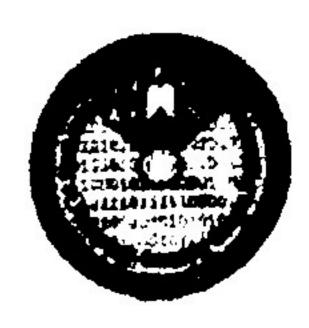


Ministry of Higher Education and Scientific Research University of Technology Computer SciencesDepartment



//2017 Date:

Time: 3:00 hours

Lecturer: MCs R. H. Faraj

Final Exam 2016-2017

OOP Subject:

Class: Second Level

Branch: Network, MM, Security

Note: Answer Five Questions Only (10 marks for each question)

Q1 answer any two of the following:

- a. What is this in java?
- b. What is polymorphism in java?
- c. Why use Java encapsulation?

Q2 what is an inheritance and which types are supported in java? Explain that with a source code example.

Q3 writea program that add names in arrayList and then display it on the console?

Q4Using abstraction concept on superclass: write a program for employee class contains the variable(ID, name, mobile-no and salary) do the following operations:

- 1. Initial values for 4 Employee.
- 2. Display the information of Employee who has name = Ahmad.

Q5Using polymorphism and inheritance: write aprogram to display the names of shapes (rectangle, square and circle)?

Q6Usingconstructorand this keyword: write a program for student class (roll-no, name, subject and mark) do the following operations:

- 1. Initial values for 4 students.
- 2. Display the information of student who has roll-no = 10.
- 3. Make carve 2 marks for student who has mark < 5.

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Good Luck