



SCHOOL OF COMPUTING & IT

3<sup>rd</sup> Semester; Second Sessional Examination, Nov. 2016

Subject Code: CS1304

Subject Name: Object Oriented Programming using Java

Course: B.Tech

Department of: IT/ CSE/ CCE

Max. Marks: 20

Duration: 1 hour

OPEN BOOK EXAMINATION

Instructions:

1. all questions are compulsory
2. Calculator is not allowed

- 1 A) Create an abstract class called an **Employee** in a package named **myemp**. Every employee record is made up of following fields. [2+2+4+3+5]

*Employee ID, Full Name, Salary.*

B) Design an interface called **RevisedSalary** with a member function *double Rsal (double percentage)*.

C) Design a class **ProjectManager** which inherits **Employee** class and implements **RevisedSalary** with additional member variables called *Totalprojects* and *Totalbugsfixed*. Design a class called **SalesManager** which implements **RevisedSalary** and inherits **Employee** class and contains member variable *Totalsales*. Create the method to display data of each class.

D) An employee is eligible for revised salary as per the given norms.

Total fixed	Bugs	TotalSales	%increase in salary
20		20	10
30		30	20
>30		>30	25

E) Provide your own exception called **NoRevision**, the exception is thrown when an employee did not fixed at least 20 bugs or did not have totalsales of 20.

2. Write a Java program read a data from a file named **IN\_FILE** and copy the data in to file named **File\_NUM**, if the character is digit, otherwise copy the data into named **File\_OTH**. [4]