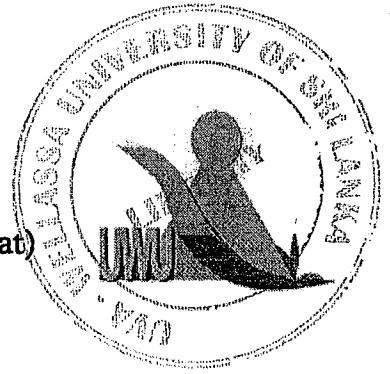


Uva Wellassa University, Sri Lanka  
End Semester Examination – June/July 2010  
CST 305-3 Rapid Application Development (Repeat)



Time: Three (03) hours

Total 04 Questions  
Answer all questions

Q1.

- a.) Explain the essentials for Rapid Application Development methodology. [05 marks]
- b.) Describe advantages and disadvantages of Rapid Application Development. [05 marks]
- c.) Provide examples where we use and where we should NOT use Rapid Application Development methodology separately. [10 marks]

Q2.

- a.) What is meant by '*Unit Testing*'? [05 marks]
- b.) Write a simple test class using jUnit to test following methods. [10 marks]

```
public int add(int num1, int num2) {  
    return num1 + num2;  
}  
  
public int getDiff(int num1, int num2) {  
    if (num1 > num2)  
        return num1 - num2;  
    else  
        return num2 - num1;  
}
```

- c.) Write the results of the test cases with the input values 4 and 6. [05 marks]

Q3. Suppose your project manager proposed to use 'ANT' as a build tool and you were asked to join the team as you are familiar with it.

- a.) Explain the team what is 'ANT'. [05 marks]
- b.) Write a sample 'ANT' targets '*clean*' to delete unnecessary folders, '*dist*' to create '*build*' folder and '*compile*' to compile source files in '*src*' folder and to store the result *.class* files in build folder. [10 marks]
- c.) Explain the team how to clean, dist and compile the project using 'ANT'. [05 marks]

Q4.

- a.) Explain the need of '*Coding Conventions*'? [05 marks]
- b.) Implement a simple program using NetBeans for a Calculator which performs '*addition*', '*subtraction*', '*multiplication*' and '*division*' using good coding conventions. [30 marks]
- c.) Write down the folder structure of your system? [05 marks]