Nepal College of Information Technology

**Unit Test**

Spring 2013

Program : BE CE Time : 2 hrs

Semester : (VI) FM : 70

Subject : Object Oriented Software Engineering PM : 35

* *Candidates are requested to give their answer as far as practicable in their own words.*
* *The figure in the margin indicates the full marks*
* ***Attempt ALL question***

1. a) Define spiral model with a neat diagram. Where can it be applied? [8]

b) Explain software crisis. How can software engineering help in addressing the crisis. [7]

2. a) Define the organizational structure as described by Constantine. [7]

b) Explain 4 P’s concept of project managent. [8]

3. a) Describe measure, metrics and indicators. Explain LOC method with your own example. [7]

b) Describe COCOMO II model with necessary derivations. [8]

4. a) Draw state activity N/W diagram of the following: [10]

Acitivity Duration Precedence

A 4

B 5A

C 6 B

D 3 A

E 7 C, D

b) What is test case? Generate test case for testing quadratic equation within values 0 to 1000 using boundary value analysis. [5]

5. Write short notes on: [2X5=10]

a) RAD model

b) Fishbone Technique

c) Benefit of FP model

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