53 (IT 604) SWEN

## 2014

## SOFTWARE ENGINEERING

### Paper : IT 604

*Full Marks : 100*

Time : Three hours

**The figures in the margin indicate full marks for the questions.**

*Answer **any five** questions out of **seven**.*

1.   *(a)*   Explain the Prototyping Model.    10

     *(b)*   Describe the Basic COCOMO Model.   10

2.   *(a)*   Explain with example, what are the different types of coupling.    10

     *(b)*   What is collaboration diagram ? Explain with an example.    2+8=10

3.   *(a)*   Explain in details, what are the steps that follow in transforming a DFD model into structured chart.    10

*(b)* What are the different relationships exist between different classes in an OOD technique ? 10

4. *(a)* What are the characteristics of a good SRS document ? 10

*(b)* Define the term software reliability. Describe *any four* matrices to measure software reliability. 3+7=10

5. *(a)* What are the different types of user interphases ? Explain with example. 10

*(b)* What do you mean by the term software reverse engineering ? Why is it required ? Explain the different activities undertaken during reverse engineering. 2+3+5=10

6. *(a)* What is a programming environment ? Write the advantage of CASE tools ? 2+8=10

*(b)* Explain the CORBA architecture. 10

7. *(a)* What is Data Flow Diagram ? Explain it with the example of Library System. 3+7=10

*(b)* What is Black Box Testing ? Describe different team structures that are basically followed in Software Industries. 4+6=10