V Semester B.Sc. (I.T.) Examination, June/July 2010
SOFTWARE ENGINEERING

Time : 3 Hours   Max. Marks : 75

Instruction : *Answer* **all** *questions from Part* **A***, and answer any* **five** *questions from Part* **B***.*

PART – A   **(12×2+1×1=25)**

1. What is the advantage of software reusability ?

2. Give the IEEE definition of software engineering.

3. What is evolutionary software process model ?

4. What is problem analysis ?

5. Name the important methods of requirement validation.

6. What is structured programming ?

7. What is the main objective of data design ?

8. Differentiate white box and black box testing.

9. What is verification and validation ?

10. Why should a software project be planned before development ?

11. What are cost drivers ?

12. Which are the programming tools ?

13. Define COCOMO model.

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PART – B

Answer **any five** :   **(5×10=50)**

1. Explain in detail water fall and spiral model.

2. What is SRS ? Explain its importance in Software engineering.

3. What is DFD ? Explain with suitable example.

4. Explain in detail the steps involved in designing a document.

5. Explain in detail Graphical design notations used in procedural designs.

6. Explain in detail different types of software testing techniques.

7. With suitable example explain COCOMO model.

8. Discuss various estimation models for estimating cost and effort.

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