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IT - 605

B.E. VI Semester

Examination, June 2014

Software Engineering and Project Management

Time : Three Hours

Maximum Marks : 70

Note: Attempt all questions. Each question carry equal marks.

1. a) List several software process paradigms. Explain how both waterfall model and prototyping model can be accommodated in the spiral process model.

   b) Explain the unified approach to software development. Discuss the merits and demerits of this approach.

   OR

2. a) Explain in detail about Configuration Management.

   b) Explain the Software Life Cycle Model in detail.

3. a) Explain the need for software measures and describe various metrics.

   b) Explain in detail about COCOMO model.

   OR

4. a) In what context, function - related metrics are used for estimating the necessary efforts for developing software? How can one relate the function - related metric with size - related metric?

   b) Discuss briefly on software maintenance activities and how do you estimate the cost involved. Explain.

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5. a) Discuss the impact of cohesion, coupling, fan - in, fan - out and factoring in design phase.

   b) What are different activities in user interface design process? Elaborate each of these activities.

   OR

6. a) How are the abstraction and decomposition principles used in developing a good software requirement specification?

   b) Describe the design process in software development. What are the characteristics and criteria for design?

7. a) Define the term Component. What are the benefits of Component - Based Software Engineering (CBSE).

   b) Explain the Coding standards of software engineering.

   OR

8. a) What are the testing principles the software engineer must apply while performing the software testing?

   b) What is black box testing? Is it necessary to perform this? Explain various test activities.

9. Explain the following terms (Any four) :

   a) Project Planning

   b) Reverse and Forward Engineering

   c) Project management standards

   d) Project staffing

   e) Risk Analysis

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