OCTOBER 2011   **P/ID 17415/RBS**

Time : Three hours   Maximum : 75 marks

PART A — (5 × 5 = 25 marks)

Answer ALL questions.

1. (a) What is software engineering? Discuss the application of software engineering.

Or

    (b) What do you mean by size-oriented metrics? Discuss.

2. (a) Discuss on modelling the system architecture.

Or

    (b) Discuss on Jackson System development.

3. (a) What is software design? Discuss on design and software quality.

Or

    (b) What is a real time system? Discuss interrupt handling in real time systems.

4. (a) Write a short note on programming language characteristics.

Or

(b) What is unit testing? Discuss on top-down integration.

5. (a) What is software maintenance? Discuss the maintenance characteristics. Write a short note on maintenance side effects.

Or

(b) Write a short note on computer aided software engineering.

PART B — (5 × 10 = 50 marks)

Answer any FIVE questions.

6. Discuss on the following :

(a) Risk analysis.

(b) Organizational planning.

7. (a) What is requirement analysis? Discuss.

(b) Write a short note on software prototyping.

8. Write short notes on the following :

(a) Data flow diagrams

(b) Object oriented analysis modelling.

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9. (a) What is control hierarchy? Discuss.

   (b) What is transform analysis? Discuss.

10. Write short notes on the following :

   (a) Design heuristics.

   (b) Data Structured Systems development.

11. (a) What do you mean by White Box testing? Discuss.

   (b) Discuss any one control structure testing.

12. (a) What do you mean by verification and validation? Discuss.

   (b) Write a short note on debugging.

13. (a) What is software configuration management? Discuss.

   (b) Write a short note on project management tools.

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