# G 217

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2003.

Fourth Semester

Information Technology

IF 255 — SOFTWARE ENGINEERING

**Time** : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. How do you classify software based on its size?

2. Enumerate software quality and productivity factors.

3. What is the outcome of feasibility study?

4. What are software planning activities?

5. State the guidelines for modular design.

6. Brief the importance of user interface.

7. What is partial integration testing?

8. How do you test boundary conditions?

9. State BROOKS LAW.

10. What are the building blocks for CASE?

PART B — (5 × 16 = 80 marks)

11. Explain the Software Requirement Specification (SRS) for a typical software project.

12. (a) Describe a software life cycle model and compare with earlier software production.

Or

(b) Explain the system engineering concepts and briefly describe on product engineering.

13. (a) Describe the architectural design of a software.

Or

(b) Explain the information presentation procedures and the techniques for the evaluation of interface.

14. (a) How do you define test cases for a software and explain how do you organise and perform various testing?

Or

(b) Explain the verification and validation techniques. How are they related to software reliability? Discuss.

15. (a) Explain the cocomo approach for estimation of cost for different kinds of software.

Or

(b) Describe the software maintenance activities and how the maintenance cost is estimated.

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