Exam. Code: 107206 1995

Subject Code:

BCA Semester-VI SOFTWARE ENGINEERING

Paper-II

Time Allowed—3 Hours

[Maximum. Marks—75

Note: — Attempt any FIVE questions. All questions carry equal marks.

- 1. (a) What are the fundamental activities of a software process? Name the evolutionary process models and explain the spiral model.
- (b) What is the difference between program and software? Write out the reasons for the failure of Water Fall Model. 10.5
- Discuss various metrics used for measuring software (a) productivity and quality. List the metrics computed during error tracking activity.
 - What are the objectives of Requirement Analysis? (b) 10.5
- What do you mean by structured analysis? Explain (a) in detail the tools used for analysis of any software system.

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- (b) What is Coupling? What are the various types of coupling? 10,5
- 4. (a) What is Testing? What are its objectives? Describe various testing fundamentals and the characteristics of a good test.
 - (b) Differentiate between the following:
 - Verification and Validation
 - Functional and Non-functional testing. 10,5
- 5. (a) Discuss about Software Quality, Software Reliability, Quality of Design and Quality of Conformance.
- (b) What is Vertical Partitioning? What are its benefits over horizontal partitioning? 10,5
- 6. Discuss the software cost estimation techniques in detail.
- 7. (a) Define design process. List the principles of a software design. Discuss the guidelines for data design.
 - (b) What is Architectural Evolution? Describe in brief. 10,5
- 8. Write short notes on:
 - Information hiding
- Project Scheduling
 - Structured Programming. 5,5,5