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**Question Paper Code : 71384**

B.E./B.Tech. DEGREE EXAMINATION, APRIL/MAY 2015.

Fifth Semester

Computer Science and Engineering

CS 2301/CS 51/10144 CS 502 — SOFTWARE ENGINEERING

(Regulation 2008/2010)

(Common to PTCS 2301/10144 CS 502 — Software Engineering for B.E. (Part-Time)  
Fifth Semester CSE — Regulation 2009/2010)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Define agility and agile team.
2. Write any two characteristics of software as a product.
3. How the limitations of water fall model overcome?
4. What are the various rapid prototyping techniques?
5. How do you describe software interface?
6. What is coupling and list the various types of coupling.
7. List out the applications of GUI?
8. What is flow graph notation and how it is important in white box testing?
9. What are the productivity measures and list its types.
10. Define ZIPF's Law.

PART B — (5 × 16 = 80 marks)

11. (a) Explain in detail about spiral model with a neat sketch and describe why this model comes under both evolutionary and RAD models. (16)

Or

- (b) Discuss in detail about business process reengineering. (16)

12. (a) Explain briefly the requirement engineering process with neat sketch and describe each process with an example. (16)

Or

- (b) Explain briefly the prototyping approaches with examples. (16)

13. (a) Discuss in detail about the real time and distributed system design architecture. (16)

Or

- (b) (i) Describe how the DFD is important in system design with an example. (8)

- (ii) Write detailed notes on real time executives and its components. (8)

14. (a) Write elaborately on unit testing and regression testing. How do you develop test suites. (16)

Or

- (b) (i) What is cyclomatic complexity and what are the ways to compute it? (6)

- (ii) List out the steps to select the path in data flow testing? (5)

- (iii) What are the different classes of loops in loop path testing? (5)

15. (a) List out the various CASE tools based on functions. (16)

Or

- (b) Explain in detail about the importance of COCOMO model and explain how it is achieved? (16)