

23465

Name: .....

Reg. No. ....



**FIFTH SEMESTER B.TECH (ENGINEERING) DEGREE EXAMINATION,  
DECEMBER 2011**

**CS/IT.04.501 - Software Engineering**

**Time : 3 Hours**

**Maximum : 100 Marks**

**PART - A**

(Answer all questions) (8X5= 40)

1. Discuss software development and its life cycle.
2. Write short notes on software quality assurance.
3. Describe the design process in software development
4. What are different activities in user interface design process? Elaborate each of these activities
5. Explain top-down approach used in Integration Testing.
6. Justify the statement "Software maintenance is costlier".
7. Explain in brief Gantt chart.
8. Discuss in brief the Role of the software engineer.

**PART - B (4X15= 60)**

12.a. Explain in detail various Software engineering principles.

Or

- b. What is meant by formal approach to software quality assurance?. Explain different approaches.
13. i. What is E-R diagram? Discuss its usage in data modelling. 8 Marks
- ii. What is DFD?. What are the symbols used in DFD?. How is it different from E-R diagram? 7 Marks

or

- ii. Explain the fundamental software design concepts in detail.

14. (a) (i) Describe the spiral model of software development. (10)

(ii) State the advantage and disadvantages of the evolutionary model of software development. (5)

Or

(b) Describe how unit testing and integration testing is conducted for object oriented software.

15. a) Explain in detail about COCOMO model.

Or

b) Explain about CASE tools.