

B.E. / B.Tech.(Full Time) DEGREE ARREAR END SEMESTER EXAMINATIONS, NOV/DEC 2011

Common to CSE & IT

SIXTH SEMESTER

CS9254 – SOFTWARE ENGINEERING

(REGULATION 2008)

Time: 3 hrs

Max Marks: 100

34

Answer ALL Questions

PART – A (10 x 2 = 20 Marks)

1. If Software does not wear out, why does it deteriorate?
2. What is the difference between a Unified Process phase and Unified Process workflow?
3. Why do we say that the requirements model represents a snapshot of a system in time?
4. What are the main uses for the requirements models?
5. Mention the three characteristics for evaluation of a good design.
6. What are the functions of component level design?
7. Mention the strategic issues of Conventional and Object Oriented Software.
8. What is Stress testing?
9. Compare Process and Product metrics.
10. Define Quality Assurance.

Answer ALL Questions

PART – B (5 x 16 = 80 Marks)

11. i. Explain the software development life cycle models in detail. (12)
ii. Is it possible to combine the process models? Give examples. (4)
 - 12.a. Discuss some of the problems that occur when requirements must be elicited from three or four different customers. (16)
- (or)
- b. i. How do primary and secondary actors differ from one another in use case descriptions? (8)
ii. How can software engineers identify stakeholders during inception? (8)

13. a. (i) What is the purpose of Domain analysis? How is it related to the concept of requirements patterns? (10)
- (ii) Explain the differences between structured analysis and Object Oriented analysis. (6)
- (Or)
- b. Suggest three requirements patterns for a model mobile phone and write a brief description of each. Could these patterns be used for other devices? Provide an example. (16)
14. a. i. Explain the concept of Coupling and Cohesion in detail with examples. (10)
- ii. Provide a few examples that illustrate why it is important to provide accessibility in software applications. (6)
- (or)
- b. i. Explain the characteristics that lead to testable software. (6)
- ii. Explain the concept of Control structure testing. (10)
15. a. i. How do an incremental process model and certification work together to produce high quality software? (8)
- ii. Write a short note on Risk Management. (8)
- (or)
- b. i. What are the four elements that exist when an effective SCM system is implemented? Discuss each briefly. (12)
- ii. Compare Verification from Validation. (4)