

B.E., DEGREE EXAMINATIONS: NOV/DEC 2012

Fifth Semester

COMPUTER SCIENCE AND ENGINEERING

CSE113: Software Engineering

Time: Three Hours

Maximum Marks: 100

Answer ALL Questions:-

PART A (10 x 1 = 10 Marks)

1. Which of the following is not the characteristic of software?
 - a) Software does not wear out
 - b) Software is flexible
 - c) Software is not manufactured
 - d) Software is always correct
2. The most important feature of spiral model is
 - a) requirement analysis.
 - b) risk management.
 - c) quality management.
 - d) configuration management.
3. Which is not a step of requirement engineering?
 - a) Requirements elicitation
 - b) Requirements analysis
 - c) Requirements design
 - d) Requirements documentation
4. ____provides a simple means for identifying and organizing the classes that are relevant to system or product requirements.
 - a) Data model
 - b) CRC model
 - c) Behavioral model
 - d) Data flow model
5. Software is divided into separately named and addressable components called
 - a) Patterns
 - b) information hiding
 - c) modularity
 - d) functional independence
6. A component should be open for extension but closed for modification.
 - a) open-closed principle
 - b) common closure principle
 - c) common reuse principle
7. White box testing, a software testing technique is sometimes called ?
 - a) Basic path
 - b) Graph Testing
 - c) Dataflow
 - d) Glass box testing
8. The main purpose of integration testing is to find
 - a) design errors
 - b) analysis error
 - c) procedure errors
 - d) interface errors

9. Changes made to the system to reduce the future system failure chances is called
- a) Preventive Maintenance
 - b) Adaptive Maintenance
 - c) Corrective Maintenance
 - d) Perfective Maintenance
10. A COCOMO model is
- a) Common Cost Estimation Model.
 - b) Constructive Cost Estimation Model.
 - c) Complete Cost Estimation Model
 - d) Comprehensive Cost Estimation Model.

PART B (10 x 2 = 20 Marks)

- 11. State the significance of prototype process model.
- 12. List the agile process models.
- 13. What are the processes involved during the development of a software?
- 14. Define CSPEC.
- 15. What are the activities of Internal design?
- 16. What is mean by information hiding?
- 17. What is Agile Testing?
- 18. What is Quality Audit?
- 19. List any four activities performed by the SQA group.
- 20. Define program documentation.

PART C (5 x 14 = 70 Marks)

21. a) (i) Explain spiral model for software engineering development. (7)
- (ii) Discuss about aspect oriented software development. (7)
- (OR)
- b) (i) Describe adaptive software development. (7)
- (ii) Explain SCRUM. (7)
22. a) (i) Write about requirements elicitation. (7)
- (ii) Explain Software Requirements Specification document. (7)
- (OR)
- b) What is data flow diagram and explain with example.

23. a) (i) List any eight design principles. (8)

(ii) Write a note on software architecture. (6)

(OR)

b) Describe about task analysis and modeling.

24. a) (i) Discuss White box testing. (8)

(ii) Describe Boundary Value Analysis. (6)

(OR)

b) (i) What are the test strategies for WepApps? (6)

(ii) Explain debugging process with diagram. (8)

25. a) Briefly Explain management spectrum- People.

(OR)

b) List and explain software reengineering activities.
