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 **Reg. No. :**

**Question Paper Code: 43026**

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2017

Third Semester

Computer Science and Engineering

14UCS306 - SOFTWARE ENGINEERING

 (Regulation 2014)

Duration: Three hours Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 1 = 10 Marks)

1. The cost of software engineering includes approximately \_\_\_\_\_\_\_\_ of development costs and \_\_\_\_\_\_\_\_\_ of testing costs.

(a) 50% and 50% (b) 60% and 40% (c) 80% and 20% (d) 40% and 60%

2. Which one of the following models is not suitable for accommodating any change?

(a) Build AND Fix Model (b) Prototyping Model (c) RAD Model (d) Waterfall Model

3. Which is not a step of requirement engineering?

 (a) Requirement documentation (b) Requirements elicitation (c) Requirement analysis (d) Requirement design

4. QFD stands for

 (a) Quality function design (b) Quality function development (c) Quality function deployment (d) Nnone of these

5. Structured charts are a product of

(a) Requirements gathering(b) Requirements analysis (c) Design (d) Coding

6. The desired level of coupling is

(a) Control coupling (b) Common coupling (c) Data coupling (d) No coupling

7. The main purpose of integration testing is to find

 (a) Design errors (b) Analysis errors (c) Procedure errors (d) Interface errors

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 (a) Design errors (b) Analysis errors (c) Procedure errors (d) Interface errors

9. The problem that threatens the success of a project but which has not yet happened is a

 (a) Bug (b) Error (c) Risk (d) Failure

10. Which is not a size metric?

 (a) LOC (b) Program length (c) Function count (d) Cyclomatic complexity

PART - B (5 x 2 = 10 Marks)

11. How does the risk factor affect the spiral model of software development?

12. Distinguish between User Requirements and System Requirements.

13. What are the types of interface design?

14. Distinguish between black box testing and white box testing.

15. What is Risk mitigation?

PART - C (5 x 16 = 80 Marks)

16. (a) Explain iterative waterfall and spiral model for software life cycle and various

 activities in each phase. (16)

Or

(b) Explain about scheduling in detail. (16)

17. (a) Explain in details the requirements engineering tasks in detail. (16)

Or

(b) Write short notes on software requirements document with example. (16)

18. (a) What is transform mapping? Explain the process in detail. (16)

Or

 (b) Describe the important principles and steps of user interface analysis and design.

 (16)

19. (a) What is Black Box testing? Explain the two different types in detail. (16)

Or

 (b) Describe about unit testing and integration testing. (16)

20. (a) How make/buy decision would be helpful for project management? (16)

Or

(b) Explain briefly about various software risks. Draw the flow chart of risk management-activity. (16)