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Question Paper Code: 43206

B.E. / B.Tech. DEGREE EXAMINATION, MAY 2022

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. What are the types of requirements?
(a) Availability (b) Reliability
(c) Usability (d) none 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
8. For a function of two variables, boundary value analysis yields
- (a) $4n + 3$ test cases
 - (b) $n + 4$ test cases
 - (c) $4n + 1$ test cases
 - (d) None of the above
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. List out the types of project plan.

PART - C (5 x 16 = 80 Marks)

16. (a) What are the various categories of risks? Discuss about the overview of risk managements. (16)

Or

(b) Describe evolutionary process models with a suitable sketch. State its advantages and disadvantages. (16)

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

Or

(b) State and explain the requirements engineering tasks in detail. (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) Explain in detail about integration testing process and system testing process. (16)

20. (a) Write short notes on the various estimation techniques. (16)

Or

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