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**Question Paper Code: 54025**

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

Fourth Semester

Computer Science and Engineering

15UCS405 - SOFTWARE ENGINEERING

(Regulation 2015)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (5 x 1 = 5 Marks)

- Which one of the following models is not suitable for accommodating any change?
  - Build & Fix Model
  - Prototyping Model
  - RAD Model
  - Waterfall Model
- How many feasibility studies is conducted in Requirement Analysis?
  - Two
  - Three
  - Four
  - Five
- What incorporates data, architectural, interface, and procedural representations of the software?
  - design model
  - user's model
  - mental image
  - system image
- In which testing level the focus is on customer usage?
  - Alpha Testing
  - Beta Testing
  - Validation Testing
  - Both Alpha and Beta
- The process each manager follows during the life of a project is known as
  - Project Management
  - Manager life cycle
  - Project Management Life Cycle
  - All the above

PART - B (5 x 3 = 15 Marks)

6. List down the characteristics of a software.
7. Specify the role of requirement engineering.
8. Name the commonly used architectural styles.
9. Distinguish between verification and validation.
10. Why LOC based estimation is not universally accepted?

PART - C (5 x 16 = 80 Marks)

11. (a) List several software process paradigms and Compare various the lifecycle models. (16)

Or

- (b) Explain iterative waterfall and spiral model for software life cycle and various activities in each phase. (16)

12. (a) Explain in detail about requirement engineering process in requirement analysis. (16)

Or

- (b) Generalize on the process model of Requirement elicitation and analysis process in detail. (16)

13. (a) Explain the different architectural styles with the neat diagram. (16)

Or

- (b) What are the good characteristics of good design? Discuss briefly about user interface design. (16)

14. (a) What are the various testing strategies to software testing? Discuss them briefly. (16)

Or

- (b) What is black box testing? Is it necessary to perform this? Explain various test activities. (16)

15. (a) Explain various cost estimation models and compare. (16)

Or

- (b) Analyze How Cocomo Model will help to estimate the software project with Empirical Estimation Model. (16)