

Note: Attempt all questions. Internal choice is available in each section.

Section-A (Objective Type Questions)

Q.I. Choose the correct answer-

(i) Parallel teams are required in:

(a) RAD model (b) Meta model

(c) Spiral model (d) None of the above

(ii) Software testing is given by an equation:

(a) Verification + validation

(b) Verification - validation

(c) Verification/validation

(d) None of the above

(iii) The most important task in a software project is:

(a) implementation (b) Controlling

(c) Closing (d) Planning

(iv) In Mc-Call quality model, product revision quality factor consist of:

(a) Maintainability (b) Flexibility

(c) Testability (d) None of the above

(v) Alpha testing is done by:

(a) Tester (b) Customer

(c) Developer (d) All of the above

Section-B (Short Answer Type Questions)

Q.II. What is the basic difference between RAD model and Incremental model?

Or How many types of metrics are there? Explain in brief?

Q.III. Briefly describe requirement review and its type?

Or What is SRS? Also write its components?

Q.IV. What is Mc Call's Quality factor?

Or Define different levels of COCOMO model?

Q.V. Distinguish between cohesion and coupling?

Or What is verification? Also, write down metrics used for this.

Q.VI. Why status accounting is required?

Or How many types of system testing are there?

Section-C (Long Answer Type Questions)

Q.VII. Define Software Engineering? Compare prototype model with spiral model of software.

Or What is project management? How functionality of a software is calculated?

Q.VIII. Explain process steps of requirement engineering with a suitable diagram.

Or How information modeling is done in a software, explain with an example.

Q.IX. What is software quality assurance? Give a comparative analysis of external versus internal qualities?

Or How risk affect quality? Describe the significance of risk management activity?

Q.X. What do you mean by design objectives? Explain various design principles involved in design-engineering of a software.

Or What are design classes? How functional independence can be achieved in designing a software?

Q.XI. Describe SCM process steps with a suitable diagram.

Or Distinguish between: (i) White Box and Black Box testing, (ii) Integration & System testing