

K-9/2110

7440/NN

Class : M.Sc(IT) 3rd Semester
Subject : Software Engineering
Paper : MS-213
MM : 70
Time : 3 hrs

Note: (i) Attempt two questions each from Section A and Section B. Each question carry 10.5 marks

(ii) Section C is compulsory.

Section A

1. What are different phases of software development life cycle? Explain.
2. Explain the working of spiral model? Also mention its limitations.
3. What is UML? How UML diagrams are used to visualize requirements and behavior?
4. How the concept of coupling and cohesion are used in design activity?

Section B

5. Explain any two code verification technique in detail.
6. How cyclomatic complexity is used to compute complexity of software?
7. What are different types of software maintenance activities?
8. Differentiate between forward and reverse engineering activity.

Section C

9. Attempt all parts(Question (i) to (ix) → 3 marks, (x)→ 1 mark))

- (i) List components of SRS.
- (ii) What is context level DFD?
- (iii) Give importance of software metrics.
- (iv) What are different quality attributes?
- (v) What is an equivalence class?
- (vi) List any three features of object oriented testing.
- (vii) What is client/server architecture?
- (viii) Why software needs to be re-engineered?
- (ix) What are types of CASE tools?
- (x) List any two limitations of prototyping model