



Mahila Vikas Sanstha's

**INDRAPRASTHA NEW ARTS
COMMERCE & SCIENCE
COLLEGE,** AT POST MALWADI, DIST. WARDHA (M.S.)

Accredited 'B' by NAAC

Approved by government
of Maharashtra

Affiliated to Rashtrasant Tukadoji
Maharaj Nagpur University, Nagpur

Recognised by U.G.C New Delhi
under section 2 (f) & 12 (b) of
UGC act 1956

Department of Computer Science

Class: Msc III Sem

Subject : Software Engg

Question Bank

Unit I

- 1. What is process framework ? Explain layered technology in detail.**
- 2. Explain the Capability Maturity Model Integration (CMMI).**
- 3. Explain functional and non-functional requirement in software engineering.**
- 4. Explain waterfall model with suitable diagram.**
- 5. Explain personal and team process model with suitable example.**
- 6. Explain waterfall process model in detail.**
- 7. Explain software engineering in terms of layered technology.**
- 8. Explain software requirements document with suitable example.**
- 9. what is Software ? Explain unified process with suitable example.**
- 10. Explain the functional and non-functional requirement in Software Engineering.**
- 11. What is process assessment ? Explain the personal and team process models.**
- 12. Explain the incremental process models of Software Engineering.**
- 13. What is software engineering ? Explain the generic view of software engineering as a layered**
- 14. technology.**
- 15. Explain the functional and non-functional requirement in software engineering.**
- 16. Explain with example the personal and team process models.**
- 17. Explain the incremental process models of software engineering.**



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UNIT II

1. Explain UML diagram with suitable example.
2. Explain an architectural design process.
3. What is software requirement analysis and validation ? Explain with example.
4. Explain with example :
 - (1) Data model
 - (2) Behavioural model.
5. Explain requirement in terms of elicitation and analysis.
6. Explain Architectural styles and pattern in detail.
7. Explain design process and design quality in detail.
8. Explain data model and object model with suitable example.
9. Explain the design process and design quality.
10. What is UML ? Explain modeling with UML.
11. Write short notes on :
 - (i) Data Model
 - (ii) Object Model.
12. What is Software requirement analysis and validation ? Explain with example.
13. Explain in short various phases of requirement engineering process.
14. Write short notes on :
 - (i) Data models
 - (ii) Object models.
15. Explain an architectural design process.
16. Explain the design process and design quality.



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UNIT III

1. Differentiate between white box and black box testing.
2. Explain the user interface analysis and design.
3. Explain the validation testing and system testing.
4. Write note on object oriented design of software.
5. Write short notes on :
 - (i) System testing
 - (ii) Validation testing.
6. Explain software qualities in detail.
7. Explain test strategies for conventional software.
8. Explain user interface design in detail.
9. Explain :
 - (i) Interface analysis
 - (ii) Interface Design.
10. Explain black box and white box testing.
11. Explain the validation testing and system testing.
12. Explain the metrics for analysis model and metrics for design model.



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UNIT IV

- 1. What is Risk Management ? Explain in detail.**
- 2. Explain the Software Quality Assurance in detail.**
- 3. Write notes on :**
 - (1) Risk Projection**
 - (2) Risk Refinement.**
- 4. Explain the technical review and metrics for software quality in detail.**
- 5. Explain statistical software quality assurance with example.**
- 6. Explain projection and identification with respect to RISK.**
- 7. Discuss Matrics for software quality.**
- 8. Explain formal technical review with example.**
- 9. Explain the risk refinement, RMMM and RMMM plan.**
- 10. Explain the software quality assurance and statistical software quality assurance.**
- 11. Explain the concept of software quality and software quality management. Explain the ISO 9000 quality standards.**
- 12. Explain the software reliability and how to achieve it.**