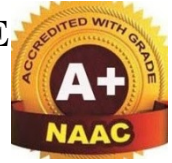




**SHRI GNANAMBICA DEGREE COLLEGE, MADANAPALLE
(AUTONOMOUS)
PROGRAMME: B. Sc (Computer Science)
II YEAR-IV-SEM
COURSE: OBJECT ORIENTED SOFTWARE ENGINEERING
QUESTION BANK**



Unit-1

Short answer questions

1. Explain about class, objects, polymorphism?
2. Explain about inheritance, encapsulation, data abstraction?
3. Explain how to create unified modeling languages (UML) diagram?
4. Explain about software development life process?
5. Explain about RAD model with advantage and disadvantages?
6. Explain about spiral model, increment model, V-model with advantage and disadvantages?

Long answer questions

1. Explain about object oriented concepts?
2. What is Unified Modeling Language (UML modeling)? Explain structural UML diagrams?
3. Explain UML language and types of UML diagrams?
4. What is UML? Explain behaviour diagrams?
5. Explain about Water fall model, Spiral model with their advantages and disadvantages?
6. Explain about Agile model and proto type model?
7. Explain about V-model, Iterative/Incremental model with their advantages and disadvantages?

Unit-2

Short answer questions

1. What is a requirement analysis and Explain steps in requirement analysis?
2. What is a requirement analysis and Explain goals and components of requirement analysis?
3. What is use case in OOSE with example?
4. What is scenario in OOSE with example?
5. Explain about activity diagrams?
6. Explain about synchronous and asynchronous messages?

7. Explain about state machine diagram with its basic components and notations for initial state, fork join?

Long answer questions

1. Explain about Object-Oriented Analysis and Design (OOAD) and Benefits of OOAD?
2. What is UML modeling techniques in OOSE? Explain its structural modeling?
3. What is UML modeling techniques in OOSE? Explain its behavioural modeling?
4. What is a sequence diagram and notations?

Unit-3

Short answer questions

1. Explain about Unit Testing with advantages and disadvantages?
2. Explain about Big Bang Integration Testing with advantages and disadvantages?
3. Explain about Test Driven Development (TDD) with advantages and disadvantages?
4. What is System Testing and Explain Process of System Testing?
5. Explain Test Driven Development (TDD)?

Long answer questions

1. Explain about basics of Software Construction in software engineering?
2. Explain Object-Oriented Analysis and Design (OOAD) principles?
3. Explain about Software Testing and types of Software Testing?
4. Explain about System Testing and types of System Testing with advantages and disadvantages?
5. Explain Test Driven Development (TDD) with advantages and disadvantages?

Unit-4

Short answer questions

1. Explain about Software Maintenance and types of Software Maintenance?
2. What is Re-factoring Techniques? Explain any two Re-factoring Techniques?
3. What is Software Version Control? Explain Centralized Version Control?
4. What is Software Version Control? Explain Distributed Version Control?
5. What is a Code Review? Explain detailed steps with its advantages and disadvantages?
6. What is a Code Inspection? Explain detailed steps with its advantages and disadvantages?
7. Differences between Code Review and Code Inspection?

Long answer question

1. Explain about Software Maintenance and Explain challenges in Software maintenances and characteristics?
2. What is Centralized Version Control? Explain its operations with their benefits?
3. What is Re-factoring Techniques? Explain any five Re-factoring Techniques?
4. What is Re-engineering? Explain Process with its advantages and disadvantages?
5. What is Re-engineering? Explain factors of Re-engineering?

Unit-5

Short answer questions

1. What is Model-driven engineering (MDE)? Explain the concepts in MDE?
2. What is Aspect-oriented programming (AOP) and challenges of AOP?
3. What is Component-based Software Engineering (CBSE) and its life cycle?
4. Explain about Service-Oriented Architecture (SOA) and principles of SOA?
5. What is Agile-Software development? Explain its advantages and disadvantages?

Long answer questions

1. Explain about Model-driven engineering (MDE)? Explain the process of MDE with advantages and disadvantages?
2. What is Aspect-Oriented Programming (AOP) concepts in AOP with advantages and disadvantages?
3. What is an Compound Based Software Engineering (CBSE)? Explain its concepts of Component-based software engineering (CBSE) with benefits and challenges?
4. What is Component-Based Software Engineering (CBSE) and its lifecycle with benefits?
5. Explain about Agile Software Development process and Explain the process of Agile Software Development?
6. What is Agile Software Development Life Cycle with its advantages and disadvantages?