

SHRI GNANAMBICA DEGREE COLLEGE, MADANAPALLE

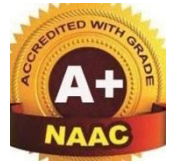
(AUTONOMOUS)

PROGRAMME: BCA (GENERAL)

II YEAR-III-SEM

COURSE: SOFTWARE ENGINEERING

QUESTION BANK



Unit 1

Short Answer Questions:

1. What is software engineering and discuss about components of SE?
2. What is SDLC model? Name any four SDLC models.
3. Explain about quality and productivity factor?
4. What is the Spiral model
5. Explain about defining a problem?
6. What is the V-Model in software development??

Long Answer Questions:

1. Explain the phases of the software development life cycle and their importance.
2. Explain about the Waterfall in detail with advantages and disadvantages?
3. Explain about incremental model with advantages and disadvantages?
4. Explain about Agile model with advantages and disadvantages?

Unit 2

Short Answer Questions:

1. Explain about Staffing Process
2. Explain about Software Maintenance Costs
3. What are the compounds of Software Cost Estimation
4. Explain Software maintenance cost factors
5. Explain about Bottom Up approach

6. What is about Process in SRS

Long Answer Questions:

1. Explain about any three Software Cost Estimation techniques
2. Explain about Estimating Software Maintenance Costs
3. Explain about Software Requirement Specification (SRS)
4. Explain factors influencing software maintains cost?
5. Explain any three formal specification techniques?

Unit 3

Short Answer Questions:

1. Explain about Software Design and explain about software objectives?
2. Explain about types of real-time system
3. Explain about modules and modularizations criteria?
4. Explain about design technique and explain any three design techniques?
5. Explain about real time distributed systems?
6. Explain about distributed computing systems with advantages and disadvantages?

Long Answer Questions:

1. Explain about different levels of software design faces?
2. Explain about fundamental design concepts?
3. Explain about design notations
4. Explain real time systems and types of real time systems with their advantages and disadvantages?
5. What is test plan and explain types of test plan?
6. Difference between test strategy and test plan?
7. Difference between walkthrough and inspection?

Unit 4

Short Answer Questions:

1. What is User Interface Design and types
2. Explain principles of user design process
3. Explain principles of interface design?

Long Answer Questions:

1. What is user interface design and explain user interface process?
2. Explain about human computer interaction (HCI)?
3. Explain interface design and its objectives?
4. Explain interface standards?

Unit 5

Short Answer Questions:

1. What is Software Quality and Explain factors of Software Quality?
2. Difference between hardware reliability and software reliability?
3. Explain any five manual testing and automatic testing?
4. Differences between unit testing and integration testing?
5. Explain verification and validation?
6. What is system testing process and types of system testing process?
7. What is reverse engineering?
8. What is re-engineering?

Long Answer Questions:

1. What is software testing and explain types of software testing?
2. Explain control structures testing?
3. What is black box testing and explain types of black box testing and with their advantages and disadvantages?

4. What is integration testing and explain types of integration testing?
5. Explain about system testing and types system testing with advantages and disadvantages?
6. Explain verification and validation?
7. Explain static testing(verification) and dynamic testing(validation)?