

**QUESTION BANK****Unit I :Software and Software Engineering**

1. a. What is an Software Engineering. Why it is important? [5 Marks]  
b. Define Legacy software & explain in detail [5 Marks]
2. a. Explain the nature of software in detail. [10 Marks]
3. a . Explain about unified process model. [6 Marks]  
b. List out the different applications of software . [4 Marks]
4. Discuss about different process models in detail . [10 Marks]
5. Explain about personal and team process models [10 Marks]
6. Describe about generic process model. [10 Marks]

**Unit II : requirement analysis and specifications**

1. a. Explain about SRS document in detail. [10 Marks]
2. a. Describe the classification of cohesiveness. [5 Marks]  
b. Describe the classification of coupling. [5 Marks]
3. Explain about functional and non-functional requirements. [10 Marks]
4. Explain about different types of specifications. [10 Marks]
5. Discuss about different approaches to software design [10 Marks]
6. a. What is a design process? Explain the different design activities and methodologies. [5 Marks]  
b. How to characterise a good software design. [5 Marks]

**Unit III :Function – Oriented Software Design and User Interface Design**

1. Explain about structured analysis in detail. [10 Marks]
2. What is a context diagram and explain about level-1 DFD. [10 Marks]
3. a. Discuss about mode-based versus modeless interface. [5 Marks]  
b. Discuss about GUI versus text based user interface [5 Marks]

4. a. Different types of user interfaces in detail. [6 Marks]  
b. explain about characteristics of good user interface. [4 Marks]
5. Explain the following in detail.. [10 Marks]  
a) Types of widgets b)X architecture c)window system
6. Describe about system design in detail [10 Marks]

#### Unit IV : Coding and Testing

1. a. Define the coding standards and guidelines.. [5 Marks]  
b. What is testing? Explain the basic concepts and terminologies in testing. [5Marks]
2. a. Explain about the debugging process. [5 Marks]  
b. discuss about code review process. [5Marks]
3. a. Explain in detail about black-box testing. [7Marks]  
b. what is need of test cases. [3Marks]
4. Explain about white box testing in detail. [10 Marks]
5. Describe the following . [10 Marks]  
a) Grey-box testing of object –oriented programs  
b) Integration testing of object-oriented programs
6. a. Discuss about static analysis tools. [5 Marks]  
b. Discuss about dynamic analysis tools. [5 Marks]

#### Unit V: Software Reliability and Quality Management, Computer Aided Software

##### Engineering

1. a. Define software reliability. Explain about reliability metrics of software products.[7 Marks]  
b. What is a software quality? And explain. [3 Marks]
2. a. Explain the following terms in detail. [6 Marks]  
a) statistical testing b)six sigma  
b) Explain about CMMI model [4Marks]
3. How CASE support in software life cycle explain in detail. [10 Marks]
4. a. Define case and explain its scope. [5 Marks]  
b. explain the case environment and benefits of CASE.. [5 Marks]
5. a. What is ISO 9000 certification? How to get ISO 9000 certification? [5 Marks]  
b. List Salient features ISO 9001 requirements. [5 Marks]

6. Explain in detail about the following [10 Marks]
- a) SPICE
  - b) PSP

#### **Unit VI : Software Maintenance, Software Reuse**

- 1. a. Explain the characteristics of software evolution. [5 Marks]
- b. Discuss about software reverse engineering. [5 Marks]
- 2. a. Explain about software maintenance process models. [5 Marks]
- b. How to estimate maintenance cost. [5 Marks]
- 3. a. Define software reuse. explain basic issues in reuse program. [5 Marks]
- b. Explain about domain analysis.. [5 Marks]
- 4. Explain the following terms [10 Marks]
  - a) Component classification
  - b) Repository maintenance
  - c) Searching
  - d) Reuse without modifications
- 5. a. Explain about reuse at organization level. [5 Marks]
- b. Explain about the current state of Reuse. [5 Marks]

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