

SIDDHARTH GROUP OF INSTITUTIONS:: PUTTUR (AUTONOMOUS)

Siddharth Nagar, Narayanavanam Road – 517583

QUESTION BANK (DESCRIPTIVE)

Subject with Code: Software Engineering(19CS0518) Course & Branch: B.Tech - CSE

Year & Sem: III B.Tech & I-Sem Regulation: R19

UNIT –I Introduction and Introduction to Agility

1	Define software and Describe the characteristics of software.		[L2][CO1]	[12M]
2	Write in detail about the nature of software.		[L2][CO1]	[12M]
3	Examine in detail about Spiral model.		[L6][CO1]	[12M]
4	-	olain how Framework activities helps to solve a problem using umbrella ivities	[L5][CO1]	[12M]
5	a	Define the term Software Engineering – A Layered Technology	[L1][CO1]	[04M]
	b	List out general principles of software engineering.	[L4][CO1]	[08M]
6	Discuss briefly about different types of software myths.		[L6][CO1]	[12M]
7	Explain in detail about the waterfall model and incremental model and problems encountered with them.		[L5][CO1]	[12M]
8	Discuss in brief about Unified Process Model with neat diagram.		[L6][CO1]	[12M]
9	What is Agile Process? Write a note on Extreme Programming(XP).		[L3][CO1]	[12M]
10	a	What is Agility? Illustrate any four Agile Process Models.	[L1][CO1]	[06M]
	b	Write a note on Agile Unified Process.	[L3][CO1]	[06M]

UNIT –II

Requirements Analysis and Specification

1	Define Requirement Engineering and explain about Requirements Engineering Tasks	[L1][CO2]	[12M]
2	How to establish the groundwork for understanding of software requirements.	[L1][CO2]	[12M]
3	Illustrate Eliciting Requirements in software requirements gathering.	[L2][CO2]	[12M]
4	What is Use-case? Why is it used? How does it help in analyzing the requirements? Explain with an example.	[L1][CO2]	[12M]
5	How to build Requirements model? Explain Negotiation and Validation requirements.	[L1][CO2]	[12M]
6	List various analysis rules of thumb in requirement analysis? Discuss Domain analysis in detail.	[L4][CO2]	[12M]
7	Examine Scenario-Based Modeling with suitable examples.	[L4][CO2]	[12M]
8	Construct Class-Based Modeling briefly.	[L3][CO2]	[12M]
9	Explain how to create a Behavioral Model with a use case diagram.	[L5][CO2]	[12M]
10	List number of problems encountered in Elicitation? Explain.	[L4][CO2]	[12M]

UNIT –III

Design Concepts and Architectural Design

1	Describe architectural genres for software-based systems. [L2][[12M]
2	a	What is the Design process? Discuss software quality guidelines and attributes .	[L6][CO3]	[12M]
	b	Explain common characteristics in the evolution of software design.	[L5][CO3]	[12M]
3	De	Determine software design concepts in detail.		[12M]
4	De	scribe a Design model with various kinds of elements.	[L2][CO3]	[12M]
5	What is Architecture? Explain briefly about Architecture Genres. [[12M]
6	List out various types of Architectural styles briefly.		[L4][CO3]	[12M]
_	a	How to assess alternate Architectural design.	[L1][CO3]	[06M]
7	b	Identify Architectural patterns.	[L3][CO3]	[06M]
8	What is software architecture? Describe in detail different types of software architectural styles with illustrations.		[L2][CO3]	[12M]
9	Explain the following: (i) Design process. (ii) Design model. (iii) Design concepts.		[L3][CO3]	[12M]
10		cuss briefly about Architectural design and their tasks.	[L6][CO3]	[12M]

UNIT –IV <u>User Interface Design and Web App Design</u>

1	Compare Content architecture and WebApp architecture.			[12M]
2	Elaborate golden rules to form the basis for a set of user interface design principles.		[L6][CO4]	[12M]
3	Explain the following: (i) Briefly explain about user interface design. (ii) Explain interface design workflow for WebApps.		[L5][CO4]	[12M]
4	List out various steps of Interface Design.		[L4][CO4]	[12M]
5	Examine the elements of interface analysis with examples.		[L4][CO4]	[12M]
	a	Explain the rules of user interface design.	[L5][CO4]	[06M]
6	b	Explain the steps involved in WebApp Interface Design.	[L2][CO4]	[06M]
-	a	Define five quality attributes of WebApp Design.	[L1][CO4]	[06M]
7	b	Discuss set of Design goals in WebApp.	[L6][CO4]	[06M]
8	Describe Architecture Design in detail.		[L2][CO4]	[12M]
9	Give detailed notes on WebApp Design Quality and their goals.		[L2][CO4]	[12M]
10	a	Design pyramid for WebApps?	[L6][CO4]	[06M]
10	b	Identify the navigation pathways to access WebAPP content and Function?	[L3][CO4]	[06M]

UNIT –V Testing and Testing Conventional Applications

	Describe Integration testing and validation testing? [L2][CO5] [12M]					
1	Describe Integration testing and validation testing? [L2]			[12M]		
2	Wh	What is Testing? Explain a number of software testing strategies with neat sketch.		[12M]		
3	a	Explain test strategies for WebApps.	[L5][CO5]	[06M]		
	b	Elaborate a strategic approach to software testing.	[L6][CO5]	[06M]		
4	a	Discuss the process of Art of debugging.	[L6][CO5]	[06M]		
•	b	What is the need of beta testing?	[L1][CO5]	[06M]		
5	Dis	Distinguish between Validation testing and System testing.		[12M]		
6	Exp	Explain about the importance of test strategies in conventional software.		[12M]		
7	a	Write a short note on fundamentals of software testing.	[L3][CO5]	[06M]		
	b	Describe briefly about White box testing.	[L2][CO5]	[06M]		
8	a	Explain in detail about Black box testing.	[L5][CO5]	[06M]		
0	b	Illustrate Testing Strategies for Object Oriented software	[L2][CO5]	[06M]		
9	a	How to test Specialized Environments, Architectures and Applications.	[L1][CO5]	[06M]		
	b	Explain boundary value analysis with an example.	[L5][CO5]	[06M]		
10	Co	mpare white box testing and Black box testing.	[L5][CO5]	[12M]		

Prepared by: R.Purushothaman.