QUESTION BANK 20
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SIDDHARTH GROUP OF INSTITUTIONS :: PUTTUR

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## **QUESTION BANK (DESCRIPTIVE)**

Subject with Code : Software Engineering (16MC819)	Course & Branch: MCA
Year & Sem: II-MCA & II-Sem	Regulation: R16

## Unit 1

	b)Describe the Layered Technology of software engineering.	[6M]	
2.	a)Explain the levels in CMMI Model.	[6M]	
	b)Explain the Essence & Principles of Software Engineering.	[6M]	
3.	a)Describe Software Myths in detail.	[6M]	
	b)What is Process Patterns and explain them?	[6M]	
4.	a) Explain the importance of evolutionary process models	[6M]	
	b)What is CMMI and its advantages?	[6M]	
5.	a)What are the customer myths and describe them?	[6M]	
	b)Explain Water fall model in detail.	[6M]	
6.	a)What is Prescriptive Process Model and explain it clearly?	[6M]	
	b)Explain RAD Model.	[6M]	
7.	a)Describe Incremental Process model.	[6M]	
	b)Explain spiral model with suitable example.	[6M]	
8.	a)Explain Evolutionary process model.	[6M]	
	b)What is Agile development and explain them?	[6M]	
9.	a)Explain Unified Process Model.	[6M]	
	b)Describe the aspect oriented software development.	[6M]	
10	. a)Explain Agile process with suitable example.	[6M]	
	b)What is Extreme programming?	[6M]	
	Unit 2		

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2.	a)Explain requirements engineering activities.	[6M]
	b)Describe the importance of requirement modeling.	[5M]
1.	a)Explain functional and non-functional requirements.	[7M]

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	b)Describe the importance of SRS?		[6M]
3.	a)What is eliciting requirements in software engineering?		[6M]
	b)What is the procedure for SRS document process?		[6M]
4.	a)List the steps of project estimation?		[6M]
	b)Explain empirical estimation models.		[6M]
5.	What are the steps required to establish the groundwork for und	erstanding of softwa	re
	requirements?		[12M]
6.	a)What is eliciting requirements? Explain.		[6M]
	b)Explain the steps in developing uses cases.		[6M]
7.	a)Explain requirements modeling process.		[6M]
	b)Explain ground work analysis		[6M]
8.	a)Explain Web App based modeling		[6M]
	b)What is class based modeling?		[6M]
9.	Explain the steps in the developing use cases.		[12M]
10	. a)Explain the process of requirements validation		[6M]
	b)What are the elements of requirements of modeling?		[6M]

## Unit 3

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9.	a) Briefly explain golden rules user interface design?	[6M]
	b) What are the software design concepts?	[6M]
8.	a) Discuss about architectural patterns with suitable examples?	[6M]
	b) Describe the principles of component level design patterns.	[6M]
7.	a) Explain the interface design patterns.	[6M]
	b) Explain the importance of user interface design patterns.	[6M]
6.	a) Explain software design strategies and complexity	[6M]
	b) Explain architectural patterns.	[6M]
5.	a) Give brief taxonomy of Architectural styles	[6M]
	b) Explain pattern based design.	[6M]
4.	a) How can analysis and principles of interface design?	[6M]
	b) Explain the process in user interface design?	[6M]
3.	a) Write a short notes on interface design steps?	[6M]
	b) Explain all the design issues.	[6M]
2.	a) List out the golden rules for interface design?	[6M]
1.	What are the software quality guidelines and attributes used in software design?	[12M

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	b) Explain the method of class based designing?		[6M]
10.	a) Explain the advantages of design patterns.		[6M]
	B Explain Object oriented design concepts		[6M]
	Unit 4		
1.	What are the software quality guidelines and attributes?		[12M]
2.	Briefly describe software testing strategies?		[12M]
3.	a) Explain unit testing with examples?		[6M]
	b) Describe object oriented software testing methods?		[6M]
4	a) Explain integration testing with examples.		[6M]
	b) What is validation testing?		[6M]
5.	a) Explain the importance and principles of testing.		[6M]
	b) Compare unit testing and integration testing.		[6M]
5.	a) What is system testing and explain it clearly?		[6M]
	b) Explain the importance of debugging.		[6M]
6.	Compare black box testing and white box testing?		[12M]
7.	a) Briefly explain basis path testing?		[6M]
	b) Explain conditional testing.		[6M]
8.	a) Explain loop testing and its advantages.		[6M]
	b) Explain the importance of Black box testing.		[6M]
9.	What are the black box testing methods? Explain.		[12M]
10.	a) Describe the boundary value analysis		[6M]
	b) Discuss about basis path testing methods?		[6M]
	UNIT V		
1.	a) List out the umbrella activities?		[6M]
	b) Explain software quality assurance.		[6M]
2.	a) Write a short notes on software configuration management?		[6M]
	b) Explain the process measurement and metrics?		[6M]
3.	a) How can analysis the size oriented metrics?		[6M]
	b) Explain function oriented metrics.		[6M]
4.	a) Describe the metrics for software quality?		[6M]
	b) Explain product metrics and its importance.		[6M]
5.	a) Explain metrics for requirements model?		[6M]
	b) Explain the metrics for the design model.		[6M]
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6.	a) Explain the metrics for source code.		[6M]
	b) Describe the metrics for testing.		[6M]
7.	a) Discuss about the maintenance for metrics?		[6M]
	b) Explain the importance of software reengineering?		[6M]
8.	a) Briefly explain activities in software reengineering?		[6M]
	b) What are the software reengineering activities?		[6M]
9.	a) Describe the importance of software quality assurance.		[6M]
	b) Briefly describe the umbrella activities?		[6M]
10.	a) Explain the importance of software configuration management	nt.	[6M]
	b) List out the importance of measurements and metrics?		[6M]

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