	2016
QUESTION BANK	2016



SIDDHARTH GROUP OF INSTITUTIONS :: PUTTUR

Siddharth Nagar, Narayanavanam Road – 517583

QUESTION BANK (DESCRIPTIVE)

Subject with Code : SE(9F00304)	Course & Branch: MCA
Year & Sem: II-MCA & II-Sem	Regulation: R13

<u>UNIT –I</u>

1. a) Describe the nature of Software.	[5M]
b) Explain the unique nature of WebApps.	[5M]
2. a) Describe the Layered Technology.	[5M]
b) What is the Frame work of Software engineering?	[5M]
3. a) Explain the levels in CMMI Model.	[5M]
b) Explain the Essence & Principles of Software Engineering.	[5M]
4. a) Describe Software Myths in detail.	[5M]
b) Explain Software Engineering Practice Procedure.	[5M]
5. a) What is Process Patterns and explain them?	[5M]
b) Explain Process Assessment.	[5M]
6. a) Explain the Generic Process Model.	[6M]
b) Describe the process improvement.	[4M]
7. a) What are Software and its process procedure explain it clearly?	[3M]
b) What is Software Engineering?	[4M]
c) Demonstrate all the applications of Software Engineering?	[3M]
8. a) What is CMMI and its advantages?	[6M]
b) What are the customer myths and describe them?	[4M]
9. a) Explain the Managerial myths with suitable examples.	[5M]
b) Draw CMMI Architecture and explain it briefly?	[5M]

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10. a) How many layers are implemented in Software Engineering.	[4M]
b) Explain the importance of generic process model.	[3M]
c) Explain Legacy Software.	[3M]
<u>UNIT-II</u>	
1. a) Describe the Process Model.	[5M]
b) Explain Water fall model in detail.	[5M]
2. a) What is Prescriptive Process Model and explain it clearly?	[5M]
b) Explain V And RAID Models.	[5M]
3. a) Describe Incremental Process model.	[4M]
b) Explain spiral model with suitable example.	[6M]
4. a) Explain Evolutionary process model.	[6M]
b) Describe the importance of process models.	[4M]
5. a) What is Agile development and explain them?	[5M]
b) Explain Unified Process Model.	[5M]
6. a) Describe the aspect oriented software development.	[6M]
b) Explain Agile process with suitable example.	[4M]
7. a) What is Extreme programming?	[5M]
b) Explain the importance of evolutionary process models.	[5M]
8. a) What is water fall model and describe its importance on softwar	re engineering? [6M]
b) Explain the importance of models in software engineering?	[4M]
9. a) Explain software components and its uses.	[6M]
b) Lists the phases in unified process model?	[4M]
10. a) Lists the types of process model.	[4M]
b) Explain the importance of agile development in organization.	[6M]

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<u>UNIT-III</u>		
1. a) Explain functional and non functional requirements.	[7M]	
b) Describe the importance of requirement modeling.	[3M]	
2. a) Explain requirements engineering activities.	[4M]	
b) Describe the importance of SRS?	[6M]	
3. a) What is the structured view of software engineering.	[5M]	
b) Explain data modeling.	[5M]	
4. a) Explain data flow diagram with suitable examples.	[6M]	
b) Describe the behavioral modeling and its importance.	[4M]	
5. a) Explain object models and its principles?	[5M]	
b) What is the importance of software requirements in project	development? [5M]	
6. a) Explain ER diagrams in software engineering.	[5M]	
b) What is eliciting requirements in software engineering?	[5M]	
7. a) List of non functional requirements?	[3M]	
b) What is the procedure for SRS document process?	[4M]	
c) Explain the kinds of system requirements?	[3M]	
8. a) Explain the structured and behavioral modeling?	[5M]	
b) List the steps of project estimation?	[5M]	
9. a) Explain empirical estimation models.	[4M]	
b) Describe the software project estimation?	[6M]	
10. a) Describe the importance of estimation models.	[3M]	
b) Explain the principles of requirement modeling.	[3M]	
c) Explain data dictionary and data flow models.	[4M]	
<u>UNIT-IV</u>		

1. a) Explain why design is important in design engineering.	[6M]
b) Discuss analysis and design model.	[4M]

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2. a) Describe quality attributes and its guidelines.	[5M]	
b) List the designing concepts with suitable examples?	[5M]	
3. a) Explain software design quality guidelines.	[5M]	
b) Explain software design quality attributes.	[5M]	
4. a) Explain software architecture and its importance.	[6M]	
b) Discuss architectural styles.	[4M]	
5. a) What are the steps include in data design ?	[5M]	
b) Explain architectural design with example.	[5M]	
6. a) What is the traditional view of software engineering?	[6M]	
b) Explain architectural mapping using dataflow.	[4M]	
7. a) Explain call and return architecture?	[5M]	
b) Describe interface design?	[5M]	
8. a) Explain function based component design.	[4M]	
b) Explain object oriented architecture?	[6M]	
9. a) Describe the class hierarchies.	[5M]	
b) How the message design works?	[5M]	
10. a) Explain class based component design.	[4M]	
b) Write short note on component design principles.	[3M]	
c) Compare function oriented & object oriented design.	[3M]	
<u>UNIT-V</u>		
1. a) List out the golden rules for interface design?	[5M]	

b) Explain all the design issues.	[5M]
2. a) Write a short notes on interface design steps?	[4M]
b) Explain the process in user interface design?	[6M]
3. a) How can analysis and principles of interface des	ign? [6M]
b) Explain pattern based design.	[4M]

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4. a) Describe pattern based software design.	[5M]
b) Explain architectural patterns.	[5M]
5. a) Explain component level design patterns?	[5M]
b) Explain the importance of user interface design patterns.	[5M]
6. a) Explain the interface design patterns.	[4M]
b) Describe the principles of component level design patterns.	[6M]
7. a) Discuss about architectural patterns with suitable examples?	[3M]
b) Explain the importance of pattern based design?	[3M]
c) Demonstrate all the applications of Software Engineering?	[4M]
8. a) Briefly explain golden rules?	[5M]
b) What are the importance of interface analysis and design?	[5M]
9. a) Explain the advantages of design patterns.	[5M]
b) Explain software design strategies and complexity?	[5M]
10. a) Describe software project management.	[4M]
b) What is pattern based software design and its importance?	[6M]

<u>UNIT-VI</u>

1.	a) Briefly describe software testing strategies?	[5M]
	b) Explain conventional software.	[5M]
2.	a) Explain unit testing with examples?	[5M]
	b) Describe object oriented software?	[5M]
3.	a) Explain integration testing with examples.	[6M]
	b) What is validation testing?	[4M]
4.	a) Explain the importance and principles of testing.	[6M]
	b) Compare unit testing and integration testing.	[4M]

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5. a) What is system testing and explain it clearly?	[5M]
b) Explain the importance of debugging.	[5M]
6. a) Explain the art of debugging.	[5M]
b) List out strategic approaches.	[5M]
7. a) Explain debugging principles with suitable examples?	[6M]
b) Describe the importance of debugging?	[4M]
8. a) Briefly explain software validation and verification?	[6M]
b) How many types of testing approach and explain it clearly?	[4M]
9. a) Explain the advantages of testing documentation.	[5M]
b) Compare validation testing and system testing?	[5M]
10. a) Differentiate integration testing and unit testing?	[4M]
b) Explain the importance of conventional and object oriented	l software. [6M]

<u>UNIT-VII</u>

1. a) What are the testing conventional applications?	[5M]
b) Explain the importance of testing.	[5M]
2. a) Describe software testing fundamentals?	[4M]
b) Describe white box testing and its importance?	[6M]
3. a) Briefly explain basis path testing?	[5M]
b) Explain conditional testing.	[5M]
4. a) What is predicate testing and its importance?	[5M]
b) Explain Data flow testing with examples.	[5M]
5. a) Explain loop testing and its advantages.	[4M]
b) Explain the importance of Black box testing.	[6M]
6. a) Explain the equivalence partitioning.	[6M]
b) Describe the boundary value analysis.	[4M]
b) Explain the importance of Black box testing.6. a) Explain the equivalence partitioning.b) Describe the boundary value analysis.	[6M] [6M] [4M]

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7. a) Discuss about graph based testing methods?	[3M]
b) Explain the testing object oriented applications?	[7M]
8. a) Briefly explain object oriented testing methods?	[5M]
b) What are the testing methods applicable at class level?	[5M]
9. a) Explain inter class test case design.	[3M]
b) Compare block box testing and white box testing?	[7M]
10. a) Explain the importance of testing conventional applications.	[5M]
b) Briefly describe testing procedures and its importance?	[5M]

UNIT-VIII

1. a) List out the umbrella activities?	[5M]	
b) Explain software quality assurance.	[5M]	
2. a) Write a short notes on software configuration management?	[5M]	
b) Explain the process measurement and metrics?	[5M]	
3. a) How can analysis the size oriented metrics?	[6M]	
b) Explain function oriented metrics.	[4M]	
4. a) Describe the metrics for software quality?	[5M]	
b) Explain product metrics and its importance.	[5M]	
5. a) Explain metrics for requirements model?	[5M]	
b) Explain the metrics for the design model.	[5M]	
6. a) Explain the metrics for source code.	[5M]	
b) Describe the metrics for testing.	[5M]	
7. a) Discuss about the maintenance for metrics?	[4M]	
b) Explain the importance of software reengineering?	[6M]	
8. a) Briefly explain a software reengineering process model?	[6M]	
b) What are the software reengineering activities?	[4M]	
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9. a) Describe the importance of software quality assurance.	[5M]
b) Briefly describe the umbrella activities?	[5M]
10. a) Explain the importance of software configuration management.	[6M]
b) List out the importance of measurements and metrics?	[4M]

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