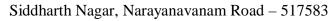
QUESTION BANK 2016

SIDDHADTH COOUP OF INSTITUTIONS :: PUTTUR





QUESTION BANK (DESCRIPTIVE)

Subject with Code : Object Oriented Software Engineering (16CS5801)

Course & Branch: M.Tech. & CSE Regulation:R16

Year & Sem: I M.Tech I-Sem

<u>UNIT-I</u>

INTRODUCTION

1.	Explain about Software Engineering Paradigm in detail	[10 M]
2.	a) Explain the Process in Software Engineering	[6 M]
	b) Discuss about the issues/problems in OOSE	[4 M]
3.	Write in details about any 2 software process model	[10 M]
4.	a) Compare Evolutionary Model and Iterative Model	[5 M]
	b) What are Process and Project? Differentiate with example.	[5 M]
5.	a) Explain about the classical life cycle model	[5 M]
	b) Compare Spiral Model and RAD Model	[5M]
6.	Write in detail about Project Management.	[10 M]
7.	Compare all the SDLC models with one another with its pros and cons.	[10 M]
8.	a) What are the metrics of Project? Explain it with example	[5 M]
	b) What are the metrics of Process? Explain it with example	[5 M]
9.	List the principles of OOSE with its concepts	[10 M]
10	a) Discuss how OOSE differs from SE	[4 M]
	b) List out the 14 points in FP with its formula and discuss about it in detail	[6 M]

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<u>UNIT-II</u>

PLANNING & SCHEDULING

1.	a) Explain about Throw-away Software Prototyping	[5 M]
	b) Explain about Evolutionary Software Prototyping	[5 M]
2.	Explain the methodologies in Object Oriented Estimation	[10 M]
3.	a) What are the techniques in Rapid Prototyping? Explain them in detail	[5 M]
	b) Sketch the process of Incremental development process	[5 M]
4.	Write in detail about Object Oriented approach for Scheduling	[10 M]
5.	a) What are the activities associated with project planning. Explain	[5 M]
	b) Differentiate Problem-based estimation and Process-based estimation	[5 M]
6.	Explain in detail about Estimation for Software Projects	[10 M]
7.	a) Process-Based Estimation Vs Tool-Based Estimation. Explain.	[5 M]
	b) List out the Scope and Resources on Software Estimation	[5 M]
8.	Write about COCOMO-II Model in brief.	[10 M]
9.	List and explain the steps in Risk Management Process	[10 M]
10	. a) What are the Eight Reasons for Late Software Delivery? Discuss	[5 M]
	b) List out the principles of Project Scheduling and discuss about it in brief	[5 M]

<u>UNIT-III</u>

UNIT III - ANALYSIS & DESIGN

1.	Explain in detail about Design Patterns.	[10 M]
2.	a) Explain in detail about Scenario-based Modeling	[5 M]
	b) Explain in detail about Class-based Modeling	[5 M]
3.	Explain in detail about Object Design Process	[10 M]
4.	a) Brief about Structured Analysis vs Object Oriented Analysis	[5 M]
	b) Explain the techniques in Domain Analysis	[5 M]

HUMAN COMPUTER INTERACTION

QUESTION BANK 2016 5. Explain in detail about Flow-oriented Modeling and Behavioral Modeling [10 M] 6. a) Explain the steps in effective Modular Design [5 M] b) Explain about Design concepts for Modular Design [5 M] 7. Write in detail about Object Model and its relationship [10 M] 8. a) Explain the phases in Structured Analysis [5 M] b) List and brief about the major steps in determining requirements for new system [5 M] 9. Explain in detail about Design Concepts & Principles [10 M] 10. a) List out the Goals and elements of Analysis Modeling? Brief about them [6 M] b) Sketch an example to explain state diagram. [4 M]

<u>UNIT-IV</u> IMPLEMENTATION & TESTING

1.	a) Explain brief about Structured Programming	[5 M]
	b) Explain brief about Functional Programming	[5 M]
2.	Write in brief about Black box testing techniques	[10 M]
3.	Write in brief about White box testing techniques	[10 M]
4.	a) List and brief about levels of Testing in detail	[6 M]
	b) Discuss about the Challenges in Software Implementation	[4 M]
5.	Explain about Object oriented testing strategies in details	[10 M]
6.	a) Explain about Top-Down Implementation and Testing with diagram	[5 M]
	b) Explain about Bottom-Up Implementation and Testing with diagram	[5 M]
7.	Explain about object oriented product Implementation & Integration	[10 M]
8.	a) How OOP helps in Implementation and Testing process	[5 M]
	b) How OOA and OOD models helps while Testing a software	[5 M]
9.	a) Explain about Cyclomatic Complexity with an example	[5 M]
	b) Differentiate Control flow testing and Data flow testing.	[5M]
10). a) Differentiate Verification and Validation with v-shaped model	[6 M]
	b) Define Regression Testing and how it differ from Retesting	[4 M]

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<u>UNIT - V</u> <u>MAINTENANCE</u>

1.	Explain in detail about Maintenance Testing with its Pros and Cons	[10 M]
2.	Write the process related to Maintenance Testing	[10 M]
3.	a) How Preventive maintenance differ from adaptive maintenance. Explain	[5 M]
	b) How perfective maintenance differ from Corrective maintenance. Explain	[5 M]
4.	What are the types of Maintenance Testing? Explain	[10 M]
5.	a) What is SRS and how it is made. Brief with the template	[5 M]
	b) What are the factors that affect Maintenance Cost	[5 M]
6.	Explain the Activities in Maintenance	[10 M]
7.	Explain the laws in Program evolution dynamics	[10 M]
8.	a) Software Maintainability Metrics Help Identify Problem Areas. Justify	[5 M]
	b) What is System Documentation and list out the contents in it	[5 M]
9.	Explain 'Lehman's laws' in detail	[10 M]
10.	Write A Case Study Project for Software Engineering Education	[10 M]

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