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No. of printed pages: 2

Max Marks: 70

(67)

## SARDAR PATEL UNIVERSITY

M.Sc. (Information Technology) Semester - II External Examinations

**PS02CINT02 Software Engineering** 22<sup>nd</sup> April, 2015

Time: 2:30 p.m. to 5:30 p.m.

Q1. a.	Choose the most appropriate option for each question. The goal of a prototyping-based development process is to counter the first					
A) four C) two						
	A) B)	four three	D)	None of these		
			/	s on the solution space of the problem		
b.	A _		muarres	, on the solution space of the problem		
	dom		$(\mathbf{C})$	A and D hath		
	A)	Requirement	,	A and B both		
	B)			None of these		
c.	Full	form of LOC in software en				
		Lines of Code		A and B both		
	B)	Line of Communication	D)	None of these		
d.	ŗ	is an example of dy	namic	view modeling in UML.		
	A)	Class diagram	C)	Sequence diagram		
	B)	Deployment diagram	D)	None of these		
e.	Á	symbol specifie	s visibi	lity of attributes and operations in public		
•••	mod					
	A)	+	C)	#		
	B	%		None of these		
f.	The	extent to which different r	nodules	s are dependent upon each other is called		
	A)	Modularity	C)			
	B)	Cohesion	D)	Decomposition		
g.	CO	COMO stands for	<b>·</b>			
	A)	Construction Cost Model	C)	Constructive Cost Model		
	B)	Constructive Code Model				
h.		A human action that results in a software fault is				
	A)	Defect	C)			
	B)	Failure	D)	None of these		

Q2.						
а. ь	Discuss benefits of using Timeboxing model.					
b.	List all four activities of requirement engineering process.					
с.	List ANY FOUR characteristics of SRS document.					
d.	Discuss Role of System Analyst in brief.					
e.	Define the terms: (i) Project and (ii) Project Management					
f.	List various duties performed by project manager. (ANY FOUR)					
g.	List various components of DFD.					
h.	Explain Test Driven Development (TDD) in brief.					
i.	Explain Black Box testing in brief.					
Q3.	Answer the following questions:					
a.	Explain the waterfall model with its limitations in detail.	[6]				
b.	Discuss need of SRS in detail.	[6]				
	OR					
b.	Explain the iterative development process model in detail.	[6]				
Q4.	Answer the following questions:					
a.	Write a short note on project management process.	[6]				
b.	Explain risk management process in detail.	[6]				
	OR					
b.	Discuss COCOMO model taking suitable examples.	[6]				
Q5.	Answer the following questions:					
a.	List and explain various design principles of function oriented concepts.	[6]				
b.	Explain various symbols and guidelines for drawing Use Case diagrams taking suitable examples.	[6]				
	OR					
b.	Discuss how to draw Activity diagram in UML taking suitable example.	[6]				
Q6.	Answer the following questions:					
a.	List various types of common coding errors. Explain ANY FIVE in one or two	[6]				
	lines.	10				
b.	List various types of software maintenance. Explain all of them in detail.	[6]				
h	OR Write a short note on cofficient Be angingering	۲ <i>۲</i> ו				
b.	Write a short note on software Re-engineering.	[6]				

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