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SARDAR PATEL UNIVERSITY

External Examinations

M.Sc. (Information Technology) Semester - II PS02CINT02: SOFTWARE ENGINEERING Monday, 4th April, 2016

1 ime	e: - 10:30 A.M. to 1:30 P.M.	Max Marks: 70	
Q-1	11 1		[8]
i)	The goal of process model is to counter the		el.
	[A] Iterative [C] Spiral	[B] Prototype	
ii)	refers to the difference between actual output a	[D] Time-Boxing	
,	[A] Mistakes	[B] Fault	
	[C] Error	[D] Failure	
iii)	of a process determines how accurately the or		t.
	[A] Portability	[B] Predictability	
	[C] Prototyping	[D] All of these	
iv)	is example of dynamic view modeling in UM	L.	
	[A] Class Diagram	[B] Deployment Diagram	
	[C] Sequence Diagram	[D] None of These	
v)	is known as functional or behavioral testing.		
	[A]Black Box Testing	[B]White Box Testing	
	[C] Enhancive Testing	[D] State Based testing	
vi)	requirements are the constraints imposed and deal with issues like maintainability, security, etc.		
	[A] Functional	[B] Non-functional	
	[C] Domain	[D] None of These	
vii)	Which of the following is not a type of cohesion?	[D] C	
	[A] Logical [C] Temporal	[B] Communicational	
viii)	is an element of work done during project hav	[D] None of These	
· · · · · ·	requirements.	ing an expected duration, cost and resource	
	[A] Program	[B] System	
	[C] Task	[D] None of these	
Q-2	Answer the following questions (Any Seven).		[14]
i)	List challenges of software engineering.		
ii) iii)	Define software requirement. List types of requirements. What is software design? What are the levels of software design?		
iv)	What is test database?		
v)	List various components of DFD.		
vi)	Discuss the role of system analyst in brief.		
vii)	State any four primary duties performed by the project manager.		
viii)	Explain in brief any two project management activities.		
ix)	Give for names of popular commercial testing mod	les.	

Q-3		
[A]	Explain Waterfall model with its advantages and disadvantages.	[06]
[B]	What is SRS? Explain general structure of SRS given by IEEE. OR	[06]
[B]	What is software process? List and explain desired characteristics of software process.	
Q-4		
[A] [B]	Write a note on COCOMO model taking suitable example. Explain risk management process in detail.	[06] [06]
	OR	
[B]	List out different activities in requirement engineering process. Explain any two of them in detail.	
Q-5		
[A] [B]	What is coupling? Briefly explain types of coupling. List solutions to reduce the coupling. List and briefly explain common coding errors.	[06] [06]
,	OR	[,,]
[B]	What is UML? Explain any two UML diagrams by giving suitable example.	
Q-6		
[A]	What is coding? List different coding processes, and explain any two of them.	[06]
[B]	Write note on software re-engineering.	[06]
	OR	
[B]	What is software maintenance? Briefly explain different types of software maintenance.	
