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Sardar Patel University
Master of Computer Application
SEMESTER – IV Examination PS04CMCA23: Software Engineering Wednesday, 10th April, 2019

Time:	02:00 PM to 05:00 PM	Max Marks:	70
Q.1	Select the most appropriate answer for the follo	wing questions:	[8]
i,	The most important feature of spiral model is		
	A) requirement analysis	B) risk management	
	C) quality management	D) None of these	
ii.	Which of the following is NOT a component of E		
	A) Exit Criteria C) Task	B) Test D) Entry Criteria	
iii.	section of SRS is most useful for developers.	b) Emily Cheria	
111,	A) Introduction	B) Overall Description	
	C) Specific Requirements	D) External Interfaces	
iv.	In COCOMO, projects are categorized into	,	
	A) 5 types	B) 4 types	
	C) 3 types	D) 2 types	
٧.	_abstraction forms the basis for OOD.	n) n .	
	A) Functional	B) Data	
!	C) Requirement A is a systematic approach to creating a de-	D) Class	
vi.	guidelines.	sign by applying of a sociol techniques and	
	A) Design Methodology	B) Design Model	
	C) Design Implementation	D) None of these	
vii.	Which of the following type of testing is impractic	al?	
	A) Alpha	B) Beta	
	C) Exhaustive	D) All of these	
viii.		e is tested along in an attempt to discover any	
	errors in its code, is known as	B) Acceptance testing	
	A) Integration testing C) Mutation testing	D) Unit testing	
	,	<i>2)</i> 3 <i>m</i> 4 3 <i>m</i> 5	f4 41
Q.2	Answer the following questions (Any seven):		[14]
i.	Define the term 'Software Engineering' and state t	he goal of SE.	
ii.	Define the term 'Software'. List out general charac	eteristics of a software.	
iii.	List characteristics of web applications.		
iv.	List out various quality attributes of a software.		
v.	Write the full-form of: OOA, WBS, UML, COCO	MO.	
vi،	What is state diagram? Give an example.		
vii.	What is regression testing? Why is it required?		
viii.	Differentiate: Black-box testing and White-box test	iting.	
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		PTO)	

ix.	What do you mean by 'Software Reuse'? Why is it useful?	
Q.3		
A	Explain prototyping model for software development with merits and demerits.	
В	List desired characteristics of software process. Explain any two of them.	[6
	OR	
В	Explain - various challenges for Software Engineering.	[6
Q.4		
A	Explain the desirable characteristics of an SRS.	
В	Discuss Risk Management of a software project planning.	[6] [6]
	OR	
В	Explain (i) Q&P and (ii) V&V	[6]
Q.5		
A	Discuss the meaning of coupling with its types and factors affecting coupling.	
В	Explain the steps of methodology for producing structured design.	[6] [6]
	OR	
В	What is UML? Explain (i) class diagram and (ii) sequence diagram by giving suitable examples.	[6]
Q.6		
A	What is coding process? Explain TDD	[6]
В	Explain the terms (i) Error (ii) Fault and (iii) Failure by giving suitable examples of each.	[6]
	OR	
В	What do you mean by "Test Case"? Explain levels of testing.	[6]
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