Sardar Patel University
Master of Computer Application
SEMESTER – IV Examination PS04CMCA04: Software Engineering Wednesday, 10th April, 2019

Q.	e: 02:00 PM to 05:00 PM Select the most appropriate answer for the follo	Max Mawing questions:	arks: 70 [8]
i.	is the structure or structures of the system, which comprise software externally visible properties of those elements, and the relationships among them.		, the
	A) Software Architecture C) Software Reuse	B) Software Design	
ii.	Which of the following is NOT a component of E7	D) None of these	
	A) Exit Criteria		
	C) Task	B) Test	
iii.	As per IEEE, SRS document should have main	D) Entry Criteria	
	A) 3	B) 4	•
	C) 5	D) 4.5	
iv.	In COCOMO, projects are categorized into	D) 4.3	
	A) 5 types	B) 4 types	
	C) 3 types	D) 2 types	
V.	_abstraction forms the basis for OOD.	-) - opes	
	A) Functional	B) Data	
	C) Requirement	D) Class	
vi.	A is a systematic approach to creating a des guidelines.	ign by applying of a set of techniques	and
	A) Design Methodology	B) Design Model	
	C) Design Implementation	D) None of these	
vii.	Which of the following type of testing is impractica	1?	
	A) Alpha	B) Beta	
	C) Exhaustive	D) All of these	
viii.	Regression testing is primarily related to		
	A) Functional testing	B) Development testing	
	C) Maintenance testing	D) Unit testing	
Q.2	Answer the following questions (Any seven):		[14]
i.	What is 'Software Engineering'?	•	
ii.	Define the term 'Software'. List out general character	eristics 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, COCOMO.		
vi.	What is activity diagram?		
ii.	What is coding?		
iii.	Differentiate: Black-box testing and White-box testing	ng.	
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ix.	What do you mean by 'Software Reuse'? Why is it useful?	
Q.3		
A	Explain waterfall 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.	
Q.4		
A	Explain the structure of SRS prescribed by IEEE.	
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	What is UML? Explain (i) class diagram and (ii) sequence diagram by giving suitable examples.	
В	Explain the steps of methodology for producing structured design.	[6]
	OR	
В	Write a note on coupling.	[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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