SYCS / Paper / Subject Code: 78904 / Software Engineering / 38

		(2 ½ Hours)	Total Marks
N.B. :	1) All questions are compulsory.		
	2) Figures to the right indicate marks		
	3) Illustrations, in-depth answers and		
	4) Mixing of sub-questions is not allo	owed	
	questions is not and	wea.	
Q.	1 Attempt All (Each of 5 Marks)	A	a di di
a(· · · · (OD O) · · · · · · · · · ·	(13
a	 Software Requirement Specification 	cation (SRS) is also known	as specification
	a. White box testing		-74
	b. Acceptance testing		
	c. Integrated testing		
	d. Black box testing		
			= 4
	2. Which is the most desirable for	m of counting?	
	a. Control coupling	e coaping.	
	b. Data coupling		
	c. Common coupling		
	d. Stamp coupling		
	3. Kind of diagrams which are u	ised to show interactions be	tween series of
	messages are classified as		
	a. activity diagrams		
	 state chart diagrams 		
	c. collaboration diagrams		
	d. object lifeline diagrams		
		Service Trades Contract	
	4. Six Sigma methodology defines	three core steps	
	a. analyse, improve, control	Estate State	
	b. analyse, design, verify		
	c. define, measure, analyse		14.
	d. define, measure, control		
			*
	5 Diagrams which are used to c	listribute files, libraries and	tables across
	topology of nardware are called		
	 a. deployment diagrams 		
	b. use case diagrams		
	c. sequence diagrams		
	d. collaboration diagrams	* * * * * * * * * * * * * * * * * * * *	
	d. Conaboration diagrams		
(b)	1. HLD stands for		
(0)	2. SDP short for	******	
	3. KLOC stands for		
	4. RMMM stands for		
	5 CMP stands for		

Paper / Subject Code: 78904 / Software Engineering

(c)	1.Define time line charts in Software Engineering?	
	2.Define Quality assurance?	
	3.Define validation?	
	4.Define Software Engineering?	
	5.Define module cohesion?	
Q. 2	Attempt the following (Any THREE)	(15
(a)		4 2 4
-(b)	State advantages and disadvantages of waterfall model.	
(c)		
(d)		
,(e)		
(f)	Define Use case diagram? Draw and explain symbols for the same.	
4		
Q. 3	Attempt the following (Any THREE)	(15
(a)	Define coupling what are the various levels of coupling.	(1.7
(b)	Calculate Cyclomatic complexity for Quadratic equation. Find various paths and	
	design test cases.	
(c)	Explain Software user interface design.	
(d)	Define Object-Oriented Programming and features of OOPs.	
(e)	Write the scope of software metrics.	
(f)	Explain Halstead's metrics with an example.	
). 4	Attempt the following (Any THREE)	
(a)	Explain Capability Maturity Model.	(15)
(b)	What is Risk management? Explain Software risk management process.	
(c)	Explain the purpose of six sigma.	
(d)	Explain any five software quality attributes.	
(e)	What is Structural testing? Write its advantages and disadvantages.	
(t)	Explain McCall's Quality factors.	
	A desirable of the control of the co	
). 5	Attempt the following (Any THREE)	(15)
(a)	Draw a Sequence diagram for online ordering of food delivery System.	
(b) (c)	State and Explain the Quality metrics.	
	State the difference between Black box testing and white-box testing?	
(d)	State all and write down a short note on any 3 fact finding techniques.	
(f)	Explain requirement validation.	
