## **COMILLA UNIVERSITY**

## Dept. of Computer Science & Engineering 3<sup>rd</sup> Year 2<sup>nd</sup> Semester B.Sc(Engg.)Final Examination 2013

Course Title: Software Engineering

Course Code: CSE-323 Session: 2010-2011

Mahatro inv	Course Code: CSE-323	Session. 2010-2011		
Total Marks: 60		Time: 3 hours		
There a	are 8(Eight) questions. Answer any 5(Five). Figure g anything on the question paper is strictly prohibited	es in the right margin indi d.	cate marks.	
	/hat is Software Engineering? What are the differen	- 1	ience and 3	
<b>b.</b> Do <b>c.</b> "I	oftware Engineering? Describe the five generic process framework activities Prototyping can be problematic for some reasons"-W What is <i>Elicitation</i> in Requirement Engineering?	5. \$ 5	5 2 2	
b. V c. "	Suppose you are facing a viva board for the position caid "you have enough technical qualifications for to some other non-tecnical respossibilities"-Describe the Why is waterfall model so called? Show it with approff you subdivide software indefinitely the effort negligibly small! Unfortunately, other forces come in invalid."Justify the statement with proper diagram.	se non-technical responsibility of the period of the perio	lities.  2 Il become 5 usion to be	
c. \	What is an Agile process? Describe Agility (for softw What is MVC? Describe its Architecture with proper What is Extreme programming (XP)? Describe the programming in your own words.	XP concepts of refactorin	g and pair 5	
b. c. d.	You are ordered to justify a software project whether decision? What are the key challenges facing for Software Eng Which software process model is best appropriate for Justify your own opinions? What is UML? List out some diagrams of UM activities.	gineering? for modern web developme L that are used for softw	nt projects?	
, .	What is CMMI? Describe the levels of CMMI with You have been asked to build Network-based university. Develop a complete set of CRC model in What are the core steps of the Six Sigma methodology.	ndex cards on the system.	m for your	

What are the advantages of DFD over other diagram? Draw a level 1 DFD for a Safe-Home software project.

What are the core steps of the Six Sigma methodology?

b. c. d.	Define software testing. What are the differences between verification and validation? What is "GOOD" test? Define unit test.  Define Black-Box testing and White-Box testing? Describe any of them.	3 2 3
a. b. c.	What is SQA? Discuss the SQA activities.  Explain "defect amplification model" with appropriate example.  Write the step of statistical quality assurance.	<b>4 5 3</b>
a.	What is software Re-engineering? Describe the software Re-engineering process model	3
а. b. c.	with proper diagram.  Define metrics, measures and indicators?  What is Reverse Engineering? Show the reverse Engineering process with appropriate	2
	diagram. What is Forward Engineering? Describe the activities of Forward Engineering for Client-	3
d.	Server Architecture.	