13MCA

Third Semester MCA Degree Examination, Dec.2016/Jan.2017 Software Engineering

Time: 3 hrs. Max. Marks:100

Note: Answer any FIVE full questions.

1	a.	What are the attributes of good software?	(08 Marks)
	b.	What are the key challenges faced by software engineer? Explain.	(06 Marks)
	c.	Explain the professional responsibilities of a software engineer.	(06 Marks)
2	a.	Explain the principles of agile methods.	(0(M - 1)
	b.	Discuss rational unified process with a neat diagram.	(06 Marks)
	c.	Explain waterfall model with its merits and demerits.	(06 Marks) (08 Marks)
3	a.	Discuss requirement engineering angular vide	
5	b.	Discuss requirement engineering process with a neat diagram.	(07 Marks)
	c.	Explain requirements elicitation and analysis process.	(07 Marks)
	C.	What are the requirements validation techniques? Explain briefly.	(06 Marks)
4	a.	Explain system models with suitable examples.	(10 Marks)
	b.	What is architectural design? Explain the repository model and client-server m	del with an
		example for each.	(10 Marks)
5	a.	Explain basic elements of a component model with a neat diagram.	(12 Marks)
	b.	List out the advantages and disadvantages of using a distributed approach	to systems
		development.	(08 Marks)
6	a.	Differentiate between black box testing and white box testing.	(00 M - 1 -)
	b.	Name the various estimation techniques in software systems.	(08 Marks)
	c.	Discuss project scheduling and staffing.	(06 Marks) (06 Marks)
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7	a.	Explain risk management process with a neat diagram.	(08 Marks)
	b.	Explain functional and non-functional requirements.	(04 Marks)
	c.	What are the practices followed in extreme programming?	(08 Marks)
8		Briefly explain the following:	
	a.	CBSE process.	
	b.	Data flow diagram of an ATM.	
		Software as a service.	
	C.	Software as a service.	

Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the