

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

Note: Answer any FIVE full questions.

Max. Marks:100

1	a. b. c.	What are the attributes of good software? What are the key challenges faced by software engineer? Explain. Explain the professional responsibilities of a software engineer.	(08 Marks) (06 Marks) (06 Marks)
2	a. b. c.	Explain the principles of agile methods. Discuss rational unified process with a neat diagram. Explain waterfall model with its merits and demerits.	(06 Marks) (06 Marks) (08 Marks)
3	a. b. c.	Discuss requirement engineering process with a neat diagram. Explain requirements elicitation and analysis process. What are the requirements validation techniques? Explain briefly.	(07 Marks) (07 Marks) (06 Marks)
4	a. b.	Explain system models with suitable examples. What is architectural design? Explain the repository model and client-server model example for each.	(10 Marks) del with an (10 Marks)
5	a. b.	Explain basic elements of a component model with a neat diagram. List out the advantages and disadvantages of using a distributed approach development.	(12 Marks) to systems (08 Marks)
6	a. b. c.	Differentiate between black box testing and white box testing. Name the various estimation techniques in software systems. Discuss project scheduling and staffing.	(08 Marks) (06 Marks) (06 Marks)
7	a. b. c.	Explain risk management process with a neat diagram. Explain functional and non-functional requirements. What are the practices followed in extreme programming?	(08 Marks) (04 Marks) (08 Marks)
8	a. b. c. d.	Data flow diagram of an ATM. Software as a service.	(20 Marks)

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