

**SVKM's NMIMS**  
**MUKESH PATEL SCHOOL OF TECHNOLOGY MANAGEMENT & ENGINEERING**

Programme: MBA. Tech (COMPUTER)

Year: II

Semester: IV

**Academic Year: 2015-2016**

Subject : Software Engineering

Date : 14/05/2016

Marks: 60

Time : 2.00 pm to 5.00 pm

Durations: 3 (hrs)

**Final-Examination**

Instruction: Candidates should read carefully the instructions printed on the question paper and on the cover of the Answer Book, which is provided for their use.

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NB:

- 1) Question No. 1 is compulsory.
- 2) Out of remaining questions, attempt any **FOUR** questions.
- 3) In all **FIVE** questions to be attempted.
- 4) All questions carry equal marks.
- 5) Answer to each new question to be started on a fresh page.
- 6) Figures in brackets on the right hand side indicate full marks.
- 7) Assume Suitable data if necessary

Q. No.1	a. Define Software Engineering. Brief on generic framework activities	[4]
	b. Give Advantages and disadvantages of Spiral model	[4]
	c. Explain Mc'Calls quality factors	[4]
Q. No.2	a. What is agile process? Explain any one agile process model in detail	[6]
	b. Discuss different architectural styles with its suitable applications	[6]
Q. No.3	a. What are the different types of requirements? Distinguish between function and non-functional requirements.	[6]
	b. Explain what a software prototype is. Identify three reasons for the necessity of developing a prototype during software development. Identify when a prototype needs to be developed.	[6]
Q. No.4	a. Discuss mapping of Data flow diagram into software architecture ( Transform mapping, transaction mapping)	[6]
	b. Justify application of three golden rules for effective user interface design	[6]
Q. No.5	a. Describe COCOMO II -model and explain where they are used.	[6]
	b. Explain SQA in detail	[6]
Q. No.6	a. What is Software configuration management? Explain major tasks and important concepts of SCM	[8]

	b. Discuss role of stub and drivers in software testing	[4]
Q. No.7	a. Discuss CMMI with its all levels	[6]
	b. Compare white box testing and black box testing	[6]