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

Programme:B. Tech (COMP) Year: III Semester: V

Academic Year: 2014-2015

Subject : Software Engineering

Date : 04/12/2014

Marks: 100
Time : 2.00 pm to 5.00 pm
Durations: 3 (hrs)

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Final-Examination

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

NB:

1. Question No.1 is compulsory.
2. Attempt any four out of remaining six
3. In all 5 questions to be attempted.
4. All questions carry equal marks.
5. Answer to each new question should be started on a fresh page.
6. Figure in brackets indicate full marks.

Q.1 a) Discuss on Software Myths .Explain the different types of Software Myths. [10]
b) Differentiate between the Prototype and Spiral model. Also discuss the advantages and disadvantages. [10]

Q.2 a) Construct level 0, level 1 and Level 2 DFD for Air ticket Booking System (ABS). [10]
b) What is Agility? Differentiate between Extreme Programming (XP) and SCRUM. [10]

Q.3 a) List the quality design principles. Also discuss on transforming Analysis model into design model. [10]
b) Design Control Flow Diagram for Printing Machine(Consider all the states) [10]

Q.4 a) Explain three golden rules of interface design. Elaborate UI design for Air ticket Booking system (ABS). [10]
b) Layered architecture style is suitable for most system software's. Justify. [10]

Q5 a) Design unit testing environment for ABS. How the Integration Testing would improve the system flaws. [10]
b) Discuss the Control Structure Testing in white box testing. [10]

Q6 a) Discuss Function based metrics and component level design metrics. [10]

b) What is software quality. Explain McCalls Triangle of quality attributes. [10]

Q.7 Write short notes on the following:- [20]

a)CMMI

b)Alpha and Beta testing

c) W5HH Principles

d)Re-Engineering and Reverse Engineering