

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

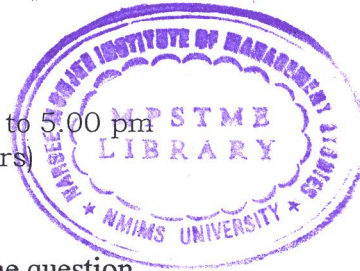
Date : 04/12/2014

Marks: 100

Time : 2.00 pm to 5.00 pm

Durations: 3 (hrs)

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.
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- Q.1 a) Discuss on Software Myths .Explain the different types of [10]
Software Myths.
b) Differentiate between the Prototype and Spiral model. Also [10]
discuss the advantages and disadvantages.
- Q.2 a) Construct level 0, level 1 and Level 2 DFD for Air ticket [10]
Booking System (ABS).
b) What is Agility? Differentiate between Extreme Programming [10]
(XP) and SCRUM.
- Q.3 a) List the quality design principles. Also discuss on transforming [10]
Analysis model into design model.
b) Design Control Flow Diagram for Printing Machine(Consider all [10]
the states)
- Q.4 a) Explain three golden rules of interface design. Elaborate UI design [10]
for Air ticket Booking system (ABS).
b) Layered architecture style is suitable for most system software's. [10]
Justify.
- Q5 a) Design unit testing environment for ABS. How the Integration [10]
Testing would improve the system flaws.
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 McCall's 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
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