

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

Programme: B. Tech (I.T.)

Year: III

Semester: V

Academic Year: 2017-2018

Subject: Software Engineering

Date: 24 November 2017

Marks: 70

Time: 2.00 pm to 5.00 pm

Durations: 3 (hrs)

No. of Pages: 1



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 their use.

- 1) Question No. 1 is compulsory.
- 2) Out of remaining questions, attempt any 4 questions.
- 3) **In all 5 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.

- | | | | |
|----|---|---|---|
| Q1 | A | "Software doesn't wear out"- Justify the statement. | 7 |
| | B | Construct a Class diagram for an Library Management system. | 7 |
| Q2 | A | What do you understand by the term Agile Modeling? Explain the various principles of Agility. | 7 |
| | B | What are the various different Software Myths? | 7 |
| Q3 | A | What is software architecture? Why is it important in design of a software? | 7 |
| | B | Explain the need for Behavioral modeling with an example. | 7 |
| Q4 | A | Explain the process of performing Bottom up Integration. | 7 |
| | B | What do you understand by the term coupling? Explain its types. | 7 |
| Q5 | A | Draw the Use case diagram for hospital management system. | 7 |
| | B | Explain Cyclomatic complexity with an example. | 7 |
| Q6 | A | Explain Smoke testing and its benefits. | 7 |
| | B | Explain the various maturity levels of CMM. | 7 |
| Q7 | | Write short notes on any TWO (2) of the following : | |
| | A | SQA activities | 7 |
| | B | User Interface Rules | 7 |
| | C | Requirement Engineering Tasks | 7 |