

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

Programme: MBA Tech (COMPUTER)

Year: II

Semester: IV

Academic Year: 2016-2017

Subject: Software Engineering

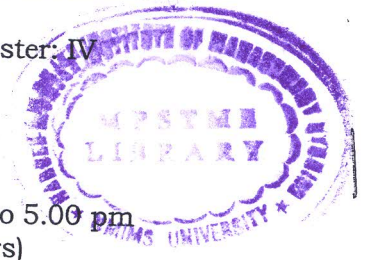
Date: 15 May 2017

Marks: 70

Time: 2.00 pm to 5.00 pm

Durations: 3 (hrs)

No. of pages: 2



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 04 questions.
- 3) In all 05 questions to be attempted.
- 4) Answer to each new question to be started on a fresh page.
- 5) Figures in brackets on the right hand side indicate full marks.
- 6) Assume Suitable data if necessary.

- Q.1 a. Define the following (any 3) (07)
i. Software Engineering ii. Baseline
iii. Verification iv. Validation
- b. Perform the requirements workflow for a library management system with respect to a rapid application model. (07)
- Q.2 a. Differentiate between generic and customized software products. Also give a brief note on legacy system. (07)
- b. Give key characteristics of agile models. How is extreme programming an important tool in software engineering discipline? Explain. (07)
- Q.3 a. Under what different situations are Cost Estimation Models and COCOMO Models used? Give a brief description of COCOMO-II model. (07)
- b. Discuss the general format of a SRS document and discuss its main components in detail. (07)
- Q.4 a. Discuss McCall's quality Factors and state their significance in the context of software engineering. (07)
- b. What is static product metrics? Describe static product metrics that have used for quality assessment. (07)
- Q.5 a. Consider the program given below (07)
- ```
void main()
{
 int i,j,k;
 readln (i,j,k);
 if((i < j) || (i > k))
 {
 writeln("then part");
 if (j < k)
 writeln ("j less then k");
 }
}
```

```
else writeln ("j not less than k");
}
else writeln("else Part"); }
```

- (i) Draw the flow graph.
- (ii) Determine the cyclomatic complexity.
- (iii) Arrive at all the independent paths.

b. Write short notes on client server model, layered mode. (07)

Q.6 a. What is data-flow model? With an example show the notations used in data flow model. (07)

b. Explain with illustration: i. Integration testing, ii. Release testing. (07)

Q.7 a. Write a Note on following (Any 2) (7x2)

- i. SCM
- ii. User Interface design Rules
- iii. Role of software and Software Myths

