## SVKM's NMTMS MUKESH PATEL SCHOOL OF TECHNOLOGY MANAGEMENT & ENGINEERING

Programme: B.Tech (Computer)

Year: III

Semester: V

Academic Year: 2019-20

Subject: Software Engineering

Marks: 70

Date: 09 November 2019

Time: 10.00 am - 1.00 pm

Durations: 3 (hrs) No. of Pages: 2

Final Examination (2019-20)/ Re-Examination (2017-18/ 2018-19)

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.

Q.1

- (a) How the prototype model solve the problems over waterfall model? (b) What is requirement analysis? Write major activities of requirement analysis. (c) What is the difference between test case and test suite? Describe with example. (d) What is the difference between traditional software development method and agile method?
- Q.2 Explain Mccall's Software Quality Factors in detail. (a) 7
  - (b) Explain SCRUM agile development approach with suitable diagram.
- Q.3 Calculate the Cyclomatic complexity for the following program: (a)

int temp if (a>b) temp=a

else temp=b

if (c>temp)

temp=c

return temp

- Explain the golden rules for user interface design. (b)
- Q.4 (a) Consider a project with following functional units—

Number of user inputs=50

Number of user outputs=40

Number of user enquiries=35

Number of user files=06

