# PARUL UNIVERSITY
## FACULTY OF IT & COMPUTER SCIENCE
### MCA/IMCA, Winter 2018-19 Examination

**Semester: 3 / 7**                                              **Date: 25/10/2018**
**Subject Code: 05201202/05301402**                             **Time: 10:30 am to 1:00 pm**
**Subject Name: Software Engineering**                          **Total Marks: 60**

**Instructions:**

1. All questions are compulsory.
2. Figures to the right indicate full marks.
3. Make suitable assumptions wherever necessary.
4. Start new question on new page.

**Q.1    Answer the following.**

**A. Do as directed.**                                                                    **(05)**

1. Define Software Engineering?
2. What is Information?
3. What is Software Architecture?
4. What is scrum?
5. List out any two design concepts.

**B. Do as directed. (Each of 01 mark)**                                                   **(10)**

1. DFD stands for _____.
2. SRS stands for _____.
3. Scrum meeting is of _____ minutes.
   (a) 20-30
   (b) 10-15
   (c) 40-50
   (d) 50-60
4. Waterfall model is not suitable for _____.
   (a) Small Projects
   (b) Complex Projects
   (c) Accommodating change
   (d) None of Above
5. MS-Office is a CASE Tool.  (True / False)
6. Which is not a software life cycle model?
   (a) Spiral Model
   (b) Waterfall Model
   (c) Prototyping Model
   (d) Capability maturity Model
7. Software engineering aims at developing?
   (a) Reliable Software
   (b) Cost Effective Software
   (c) Reliable and cost effective Software
   (d) None Of Above
8. Which of the following is not a product matrix?
   (a) Size
   (b) Reliability
   (c) Productivity
   (d) Functionality
9. Project risk factor is considered in?
   (a) Spiral Model
   (b) Waterfall Model
   (c) Prototyping Model
   (d) Iterative enhancement Model

10. A good requirement should be?
    (a) Unambiguous
    (b) Distinctly Specific
    (c) Functional
    (d) All of Above

**Q.2 Answer the following.**

1. What is uncertainty & loss? **(02)**
2. Write down difference between Data & Information. **(02)**
3. Give the example of test case. **(02)**
4. Lists even distinct tasks encompassed in Requirement Engineering and explain Elicitation phase. **(03)**
5. Explain any three elements of SQA. **(03)**
6. Give any two differences between Alpha Testing Vs. Beta Testing. **(03)**

**Q.3 Answer the following. (Any three)** **(15)**

1. Which Process Model is used for Risk Management? Explain with diagram in brief.
2. Explain Six Sigma Software engineering.
3. Write down difference between Cohesion Vs. Coupling.
4. Explain any one Level of Testing.

**Q.4 Answer the following.**

A. Draw Sequence diagram on ATM System. **(05)**
B. Prepare Use Case Diagram on Library Management System. **(10)**

**OR**

B. What is Black Box Testing? Explain any one Black Box Testing Technique. **(10)**