PARUL UNIVERSITY
FACULTY OF IT & COMPUTER SCIENCE
BCA/IMCA
2017–18 Mid Semester Examination

Semester: 4th   **Date: 03/4/2018**
Subject Code: 051051253/053051253   **Time: 10 to 12**
Subject Name: Basic Software Engineering   **Total Marks: 40**

Instructions:
1. Figures to the right indicate full marks.
2. Make suitable assumptions wherever necessary.

Q.1	**Answer the following.**	**[10]**
(a)	**Short Questions**	[3]
	1) What is Software Engineering?	
	2) What are the various phases of SDLC?	
	3) What are functional requirements?	
(b)	**True-False**	[7]
	1) Coding is after design.	
	2) Requirement analysis must achieve primary objectives of the customer.	
	3) Programming is testing the software for quality.	
	4) The foundation for software engineering is process layer.	
	5) Questionnaires is not necessary in the Requirement analysis stage of the SDLC.	
	6) Maintainability is one of the Factors that determine System Quality.	
	7) Quality assurance is involved in every phase of the SDLC.	

Q.2	**Answer the following.** (2 or 3 mark questions)	**[10]**
(a)	1) Explain any three methods of requirements fact gathering.	[4]
	2) What is SRS? Why it is importance?	
(b)	1) What is a system? Describe the different categories of information systems.	[6]
	2) Differentiate validation and verification.	
Q.3	**Attempt any TWO.**	**[10]**
1	List the task regions of Spiral Model. What are the drawbacks of spiral model?	[5]
2	List and Explain the main activities of System Analyst and Programmers Analyst.	[5]
3	Relate Quality Assurance with Quality Control. Justify your answer that QA is not QC.	[5]

Q.4	**Answer the following.**	**[10]**
(a)	Explain Iterative Model in detail with diagram , implementation and advantages and disadvantages.	[5]
(b)	Differentiate between SQA and SQC . List out the activities of SQA and SQC.	[5]

OR

(b)	Explain TPS, BIS ,MIS and OAS with example.	[5]