

PARUL UNIVERSITY
FACULTY OF IT & COMPUTER SCIENCE
BCA / IMCA Summer 2018 – 19 Examination

Semester: 04**Subject Code: 05101253/05301253****Subject Name: Basic Software Engineering****Date: 19/04/2019****Time: 2:00pm to 4:30pm****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 followings.**A. Do as directed.****(05)**

1. What is System?
2. Explain term Software Engineering.
3. What is Software Testing?
4. What is modularity?
5. Explain term Software Quality Assurance.

B. Do as directed.**(10)**

1. Data about data is known as Meta Data. (True/False)
2. DFD is a way of representing a flow of data of a process or a system. (True/False)
3. IS stands for Information Server. (True/False)
4. SRS stands for _____.
 - A. Software Requirement Specification
 - B. System Requirement System
 - C. Software Requirement System
 - D. Social Requirement System
5. Third phase of SDLC is _____.
 - A. Coding
 - B. Testing
 - C. Feasibility Study
 - D. Communication
6. Context Level DFD describes _____.
 - A. Full System Design
 - B. Interaction between system & outside entities
 - C. Overview of process
 - D. None
7. Software Engineering aims at developing?
 - A. Reliable Software
 - B. Cost Effective Software
 - C. Both
 - D. None
8. Informational cohesion is a realization of _____.
 - A. Structured Programming
 - B. Modularity
 - C. Concurrency
 - D. Data Abstraction
9. Detailed study of existing system is referred as _____.
 - A. System Planning
 - B. System Analysis
 - C. Feasibility Study
 - D. None
10. Which one of the following is not a stage of SDLC?

- A. Communication
- B. Problem Identification
- C. Coding
- D. Feasibility Study

Q.2 Answer the followings. (15)

1. Explain the role of System Analyst. (2)
2. What is Unit Testing? (2)
3. What is UML? List out any two types of UML Diagrams. (2)
4. What is coupling? Explain different types of coupling. (3)
5. Write down differences between top-down & bottom-up approach. (3)
6. Explain any two Coding Standards with example. (3)

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

1. Write a short note on various Fact Finding Techniques.
2. What is sequence diagram? Explain various notation used in it.
3. Write down differences between SQA & SQC.
4. Draw Use Case Diagram for Online Airline Reservation.

Q.4 Answer the following.

- A. Explain Data Dictionary with example. (05)**
- B. Write a short note on SDLC. (10)**

OR

- B. Draw Context Level DFD & Top Level DFD for Online Shopping Portal. (10)**