

PARUL UNIVERSITY
FACULTY OF IT & COMPUTER SCIENCE
BCA Summer 2022-23 Examination

Semester:3/4**Subject Code: 05101253****Subject Name: Basic Software Engineering****Date: 03/04/2023****Time: 10.30am to 1.00pm****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. Answer / Define the following in short. (05)**

1. Define System.
2. Define UML
3. Define System Designer.
4. Define Verification and Validation.
5. Define Coding.

B. Multiple choice type questions/ Give the sentence true or false. (Each of 01 marks) (10)

1. System Study involves _____
A. study of an existing system B. documenting the existing system.
C. identifying current deficiencies and establishing new goals
D. All of the above
2. Which one is not the fact-finding technique?
A. Interview B. Questionaries C. Observation D. Use case
- 3 Full form of UML _____
A. Unified Modeling Language
B. Universal Model Language
C. Underived Language
D. None of these
4. What are the various Testing Levels?
A Unit Testing
B. System Testing
C. Integration Testing
D. All of the mentioned
5. Full form of V model is _____
A. Verification & Validation
B. Verified Value
C. Validated Values for Testing
D. None of These
6. SDLC stands for _____.
A. Soft development life cycle
B. Software design life cycle
C. System design life cycle
D. System development life cycle
7. SQA stands for _____.
A. Software Quality Assurance
B. Software Quantity Assurance
C. System Quantity Assurance
D. System Quality Audit
8. The process of breaking down a system into smaller components is known as _____.
A. Decomposition
B. Composition
C. Coupling
D. None

9. What is DFD stands for?
A. Data Flowchart Diagram
B. Data Flow Diagram
C. Depict Flow Diagram
D. Data Flow Depicts
10. The context diagram is also known as _____
A. Level-0 DFD
B. Level-1 DFD
C. Level-2 DFD
D. All of the above

Q.2 Answer the followings. (3 Marks Questions.) (Any Five) (15)

1. Explain Data Dictionary.
2. Write any three difference between Verification and Validation
3. Define Static testing and Dynamic testing with its types.
4. What is Information System. List types of Information System. (Full form)
5. Define System Analyst. Explain any three roles of System analyst
6. Define any three Coding Standard with an example.

Q.3 Answer the following. (5 Marks Questions)(Any three) (15)

1. Explain SDLC in detail.
2. Draw DFD Level 0 and Level 1 for online shopping system.
3. What is testing? Explain Black box Testing
4. Explain Software Project Documentation Categories

Q.4 Answer the following in detail.

- A.** What is Fact gathering techniques? List all the techniques and explain any two. **(05)**
- B.(1)** Draw use case of ATM **(05)**
- B.(2)** Explain Spiral Model in detail **(05)**
- OR**
- B.(1)** Draw Activity diagram of Library Management System **(05)**
- B.(2)** Explain Water fall model in detail **(05)**