

PARUL UNIVERSITY
FACULTY OF ENGINEERING & TECHNOLOGY
B.Tech. Summer 2018 - 19 Examination

Semester: 7
Subject Code: 03105401
Subject Name: Software Engineering

Date: 08/05/2019
Time: 10:30am to 01:00pm
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 Objective Type Questions - (Fill in the blanks, one word answer, MCQ-not more than Five in case of (15) MCQ) (All are compulsory) (**Each of one mark**)

1. Running the system under a live environment at Client side for few selected familiar users using Live data to find errors is known as
 - A) Beta Testing
 - B) Alpha Testing
 - C) Acceptance Testing
 - D) System Testing
2. In a DFD external entities are represented by a
 - A) Rectangle
 - B) Ellipse
 - C) Diamond shaped box
 - D) Circle
3. After the design phase the document prepared is known as-
 - A) System specification
 - B) Performance specification
 - C) Design specification
 - D) None of the above
4. UML stands for
 - A) Unified Modeling Language
 - B) Unified Modular Language
 - C) Unique Modeling Language
 - D) None of the above
5. Actual programming of software code is done during the _____ step in SDLC.
 - A) Maintenance & Evaluation
 - B) Design
 - C) Analysis
 - D) Development & Documentation
6. _____ testing must precede Integration testing and System testing.
7. In a DFD, processes that have inputs but produce no output are called _____.
8. Changes made periodically to a system after its implementation is called _____
9. Defining the problem and determining the new system objectives are part of the _____ phase of SDLC.
10. The next major step before system design and after feasibility study is _____.
11. _____ model of the SDLC incorporates the element of risk analysis also.
12. Unit testing is known as _____.
13. Data Dictionary describes every data element and _____
14. _____ is a model used for system components.
15. Decision table is a tabular method for describing the logic of the decision to be taken.(True/ False)

- Q.2 Answer the following questions. (Attempt any three) (15)**
- A) Explain the concepts of Coupling and Cohesion with reference to modular design approach.
 - B) Compare the Object-Oriented approach with Module Oriented Approach.
 - C) What is SRS document? What are the major characteristics of SRS?
 - D) What are the objectives of software design? How do we transform a broad design into detail design
- Q.3 A) What do you understand by System Implementation and Maintenance? Discuss the various methods for evaluation of performance. (07)**
- B) What is the significance of Graphical User Interface (GUI) in input and output design of a system? Describe characteristics of good user interface design. **(08)**
- OR**
- B) What is DFD? Explain difference between logical and physical DFD. Draw DFD of library management system. **(08)**
- Q.4 A) What is Software Testing? Explain difference between Black box and White box testing with example. Design Test cases for Login Module using Black box approach. (07)**
- OR**
- A) What is Risk? Explain types of Risk. Discuss Risk Management process. **(07)**
- B) What are attributes of Software Quality? Differentiate Quality Control Vs Quality Assurance. Enlist various SQA activities. **(08)**