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| **SESSION** | **NOV-DEC 2023** |
| **PROGRAM** | **MASTER OF COMPUTER APPLICATIONS (MCA)** |
| **SEMESTER** | **3** |
| **COURSE CODE & NAME** | **DCA7103 -ADVANCED SOFTWARE ENGINEERING** |
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**SET – I**

**1. What is SDLC? Explain the different phases of SDLC?**

**Ans 1.**

The Software Development Life Cycle (SDLC) is a systematic process used by software engineers to develop high-quality, efficient, and cost-effective software applications. It encompasses a series of steps that provide a structured approach to building software. Understanding and following the SDLC phases ensures the software is developed systematically, efficiently, and Its Half solved only

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**2. Explain the spiral model with its advantages and disadvantages in detail?**

**Ans 2.**

The Spiral Model is a sophisticated software development process combining elements of both design and prototyping-in-stages. It's a unique blend of the Waterfall Model and iterative development, aiming to combine advantages of top-down and bottom-up concepts.

**Overview of the Spiral Model**

Developed by Barry Boehm in 1986, the Spiral Model emphasizes risk analysis and is primarily used for

**3. How reliability in a software system can be achieved? Explain?**

**Ans 3.**

Reliability in software engineering is a measure of how consistently a software system performs its intended functions under specified conditions for a specified period of time. Achieving high reliability in a software system involves several key strategies and practices, which I will outline below.

1. **Comprehensive**

**SET – II**

**4. Elaborate 3 phases of the Object-Oriented Design Process?**

**Ans 4.**

The Object-Oriented Design (OOD) process is a critical phase in software engineering, particularly in the development of applications using object-oriented programming. OOD involves the use of principles and patterns to create an efficient, scalable, and maintainable software structure. This essay will elaborate on the three core phases of the Object-Oriented Design process: Conceptual

**5. What do you mean by testing? Differentiate between Black Box testing and White Box testing?**

**Ans 5.**

Testing in software engineering refers to the process of evaluating a software application to detect differences between the existing and required conditions, and to assess the features of the software. Testing plays a crucial role in ensuring the quality, functionality, and performance of software. It involves executing a software component to evaluate one or more properties of interest.

**Black Box**

Top of Form

**6. What is software quality assurance? Explain the activities that are carried out throughout the project lifecycle?**

**Ans 6.**

Software Quality Assurance (SQA) is a systematic process designed to evaluate and ensure the quality of software development and maintenance. It encompasses a wide range of activities conducted throughout the software project lifecycle to prevent defects, ensure standards compliance,