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| **SESSION** | **AUG/SEP 2023** |
| **PROGRAM** | **MASTER OF BUSINESS ADMINISTRATION (MBA)** |
| **SEMESTER** | **III** |
| **COURSE CODE & NAME** | **DITF302 – SOFTWARE ENGINEERING** |
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**Assignment Set – 1**

**1. Explain the layered approach of Software Engineering.**

**Ans 1.**

Software engineering is a complex and multifaceted field that requires a structured approach to manage its various aspects effectively. One such approach is the layered model, which breaks down the software development process into distinct layers, each focusing on specific tasks and objectives. This method ensures a systematic progression through the stages of software development, enhancing

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**2. Describe various phases of Project management. Discuss process and project metrics in detail.**

**Ans 2.**

**Project Management Phases**

Project management is a critical practice that involves planning, executing, and overseeing projects to achieve specific goals within a set timeframe. It typically unfolds in several distinct phases, each with its own set of activities and objectives.

**Initiation**: This is the

**3. i. Define SCM Process.**

**ii.What are the various tasks of the SCM process? Explain.**

**Ans 3.**

**Software Configuration Management (SCM) Process**

Software Configuration Management (SCM) is a critical component of software engineering that involves tracking and controlling changes in the software. It encompasses the practices and procedures for managing changes to software products, ensuring consistency, and maintaining their

**Assignment Set – 2**

**4. Discuss the software design process stages.**

**Ans 4.**

The software design process is a critical phase in the development of any software application. It involves a series of stages, each of which plays a vital role in ensuring the final product is both functional and efficient. Understanding these stages is crucial for anyone involved in software development, from project managers to developers.

**Requirement**

**5. Explain White Box Testing with its components.**

**Ans 5.**

**White Box Testing: An In-Depth Overview**

White box testing, also known as clear, glass, or structural testing, is a method of software testing where the internal structure, design, and implementation of the item being tested are known to the tester. This approach is diametrically opposite to black box testing, which involves testing the software without any knowledge of its internals. White box testing is predominantly used for

**6. i.What is the purpose of the Capability Maturity Model (CMM)? Top of Form**

**ii. Explain the levels of CMM in detail.**

**Ans 6.**

The Capability Maturity Model (CMM) is a development model created in the late 1980s and early 1990s by the Software Engineering Institute (SEI) at Carnegie Mellon University. It is primarily used in the software development industry but has been adapted for various other sectors. The purpose of CMM is to provide organizations with a framework for developing and refining their software development processes. The model outlines a structured path of development in five distinct levels, each building upon the last, enabling organizations to assess their