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| **SESSION** | **FEB-MARCH 2024** |
| **PROGRAM** | **MASTER OF BUSINESS ADMINISTRATION (MBA)** |
| **SEMESTER** | **III** |
| **COURSE CODE & NAME** | **DITF302 – SOFTWARE ENGINEERING** |
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**Assignment Set – 1**

**1. Explain the concept of the layered approach of Software Engineering.Illustrate the various process activities in detail.**

**Ans 1.**

The layered approach in Software Engineering is a structured method that organizes the process of developing software into separate, clearly defined layers, each with a specific role or function. This approach not only helps in managing the complexity of software development but also improves maintainability and scalability of the system.

**Layered Approach: Concept and Structure**

The concept of the layered approach in Software Engineering is based on the idea of dividing

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**2. Write a detailed note on phases of Project management. Discuss process and project metrics in detail.**

**Ans 2.**

Project management is a critical discipline in industries where structured planning, execution, and delivery of projects are necessary. The effectiveness of project management can often be gauged through the systematic progression through its phases and the careful monitoring of both process and project metrics.

**Phases of Project Management**

**Initiation Phase:** The initiation phase marks the beginning of a project by defining its scope,

**3. Define Software Configuration Management (SCM) Process. Further, it explains the tasks of the SCM process.**

**Ans 3.**

**Software Configuration Management (SCM) Process**

Software Configuration Management (SCM) is a critical process used in software engineering to track and control changes in the software, part of the larger cross-disciplinary field of configuration management. SCM practices include revision control and the establishment of baselines. If something goes wrong, SCM can determine what was changed and who changed it. If a configuration is working well, SCM can determine how to replicate

errors or inconsistencies.

**Assignment Set – 2**

**4. Describe Software Design. Illustrate thesoftware design process stages and explain.**

**Ans 4.**

**Software Design**

Software design is a fundamental stage in the software development lifecycle that involves the creation of a plan or blueprint for a software application. It encompasses the overall structure, components, interfaces, and data for a system to satisfy specified requirements. This phase is crucial because it lays the groundwork for how the software will be built and implemented, ensuring it meets both functional and non-functional requirements while being

**5. Explain the concepts of White Box Testing and its components.**

**Ans 5.**

White box testing, also known as clear box testing, structural testing, or code-based testing, is a software testing method where the internal structure, design, and coding of the software are scrutinized to ensure quality and security. This approach requires a thorough understanding of the code, as it involves examining the internal workings of an application, as opposed to black box testing which focuses solely on functionality without delving into the underlying

**6. What is the purpose of the Capability Maturity Model (CMM)? Explain the levels of CMM in detail.**

**Ans 6.**

**Purpose and Levels of the Capability Maturity Model (CMM)**

The Capability Maturity Model (CMM) is a development model created initially by the Software Engineering Institute (SEI) at Carnegie Mellon University. It is designed to assess and improve the performance of software development processes. The primary purpose of CMM is to help organizations improve their software development capabilities systematically so they can consistently and predictably produce high-quality software that meets customer