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| **SESSION** | **MARCH 2023** |
| **PROGRAM** | **MASTER OF BUSINESS ADMINISTRATION (mBA)** |
| **SEMESTER** | **III** |
| **course CODE & NAME** | **DITF302 – software engineering** |
| **CREDITS** | **4** |
| **nUMBER OF ASSIGNMENTS & Marks** | **02****30 Marks each** |

**Assignment Set – 1**

**1. Write a detailed note on the concept of the layered approach of Software Engineering.**

**Ans 1.**

**Concept of the layered approach of Software Engineering**

The layered approach is a paradigm of software engineering that structures the design and development process into independent levels or layers. This approach promotes separation of concerns, modularization, and efficient code management. The entire development process is divided into several levels of abstraction, each layer focusing on specific functionality or

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

**Ans 2.**

**Phases of project management**

Managing a project is difficult regardless of its size and scope. From handling the ever changing demands of clients to delivering the deliverables on schedule, there are several opportunities for error. However, when the project is divided into manageable stages, each with its objectives and deliverables, it is easier to maintain control over the project and its

**3. I. Define SCM Process.**

**Ans 3 (I).**
**SCM Process:**

Supply Chain Management (SCM) process involves the active management of supply chain activities to maximize customer value and achieve a sustainable competitive advantage. It represents a conscious effort by the supply chain firms to develop and run supply chains in the most effective & efficient ways possible. SCM encompasses the planning and

**3. II. Explain the tasks of SCM process.**

**Ans 3(II).**

**Tasks of SCM Process:**

The primary tasks of the SCM process are as follows:

1. **Demand Planning**: This involves forecasting the demand for a product or service so that it can be produced and delivered more efficiently and to the satisfaction of customers. It includes predictive analytics and a consideration of factors like market

**Assignment Set – 2**

**1. Explain the software design process stages.**

**Ans 1.**

 **Software Design Process**

A general model of a software design is a directed graph. The target of the design process is the creation of a graph without any inconsistencies. Nodes in this graph represent entities in the design entities such as process function or types. The link represents relation between these design entities such as calls, uses and so on. Software designers do not arrive at a

**2. Explain the concepts of White Box Testing with its components.**

**Ans 2.**

**White Box Testing**

In the previous section, we studied about software testing fundamentals. In this section, we will study about a testing method called white box testing. We can define “white box testing” as a kind of testing where the test groups should have complete knowledge of the internal structure of the software. White box testing is also called structural testing (and sometimes

**3. a.What is the purpose of the Capability Maturity Model (CMM)?**

**Ans 3a.**

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

The Capability Maturity Model (CMM) is a method for developing and refining a company's operations. The original CMM was created to establish and refine software development methods. A maturity model is a systematic collection of features that indicate effective process characteristics. A maturity model consists of:

* A starting point that capitalizes on a community's past experiences.

**3b. Explain the levels of CMM in detail.**

**Ans 3b.**

**Levels of CMM**

Continuous process improvement relies on tiny, evolutionary stages, not revolutions. The CMM organizes evolutionary steps into five maturity levels for constant process improvement. These five maturity levels define an ordinal scale for evaluating a company's software process maturity. Levels help organizations prioritize improvement activities. A maturity level is an evolutionary