**SESSION DEC 2022**

**PROGRAM MASTER OF COMPUTER APPLICATIONS (MCA)**

**SEMESTER III**

**COURSE CODE & NAME DCA8142 & OPEN SOURCE DB SYSTEMS**

**CREDITS 4**

**Assignment Set – 1**

**1. a. Explain different concurrency control problems.**

**Ans:** By using Concurrency control and recovery mechanisms, the transactions submitted by the various users can execute concurrently and may access and update the same database items. If this concurrent execution is uncontrolled, it may lead to problems, such as an inconsistent

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**2. a. Briefly explain the various models of open-source software model.**

**Ans:** Some of the most used OSS models are:

• Build and Fix Model.

• Rapid Prototype Model.

• Spiral Model

**Build and fix**

**3. a. Explain relational model concepts and Relational algebra operations in detail.**

**Ans: The relational model** is a data model. In the relational model, we can represent the database as a collection of relations. Relations are represented as tables. Each table consists of a set of

**Assignment Set – 2**

**4. a. Explain different data types used in PHP.**

**Ans: In the above types, t he first five are simple types and the next two (arrays and objects) are compound.**

**1) Integers** Integers are whole numbers without a decimal point. They are the simplest types. They can be either positive or negative. We can declare a variable like, $ int\_var = 3456; $ a =-567 Integers can be in decimal (base 10), hexadecimal (base 16), and octal (base 8) format. this decimal is

**5. a. Define Indices. Explain different Index types.**

**Ans: Indices** are a special type of database object. The use of Indices will greatly increase database performance and also it enables faster execution of statements involving comparative criteria. An index helps to find the targeted rows more efficiently by tracking the data on one or

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