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| **SESSION** | **NOV-DEC 2023** |
| **PROGRAM** | **MCA** |
| **SEMESTER** | **III** |
| **COURSE CODE & NAME** | **DCA8142&OPEN SOURCE DB SYSTEMS** |
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**SET-I**

**1. Why is concurrency control required in non-serial schedule? Also suggest any solution to maintain it.**

**Ans 1.**

Concurrency control is essential in non-serial schedules of database systems to ensure data integrity and consistency. In a non-serial schedule, multiple transactions operate concurrently, increasing efficiency and resource utilization. However, this concurrency brings the risk of conflicting operations, which can lead to anomalies like lost updates, temporary inconsistency, and data

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**2. Explain the need of Intellectual property right? Also discuss various licensing options available for copyrights**

**Ans 2.**

Intellectual property rights (IPR) play a crucial role in the modern economy, particularly in the context of open-source database systems. This discussion will delve into the necessity of IPR and explore the various licensing options available for copyrights.

**Importance of Intellectual Property Rights**

**Promoting Innovation**

**3. Discuss the meaning of integrity in RDBMS. Classify them. 10**

**Ans 3.**

Integrity in Relational Database Management Systems (RDBMS) refers to the correctness, consistency, and adherence to defined rules and standards of the data stored in a database. It's a critical aspect that ensures data is accurately and reliably stored, manipulated, and retrieved, maintaining the quality and trustworthiness of the database.

**Types of Integrity in RDBMS**

1. **Entity Integrity:** Entity integrity is concerned with ensuring that each row in a table is a uniquely identifiable entity. This is typically enforced through the use of primary keys. A primary key is a column, or a set of columns, that uniquely identifies each row in a table. The primary key must

**SET-II**

**4. What is PHP? Explain different building blocks in PHP**

**Ans 4.**

PHP, an acronym for "PHP: Hypertext Preprocessor," is a widely-used open-source scripting language designed for web development. It is especially suited for creating dynamic and interactive web pages. PHP scripts are executed on the server, and the result is sent to the client as plain HTML. Here's a detailed overview of PHP and its fundamental building blocks:

**1. Syntax:**

PHP's syntax

Top of Form

**5. Discuss the purpose of stored procedures in MySQL. Give the process of writing a procedure with an example template**

**Ans 5.**

Stored procedures in MySQL serve several important purposes, enhancing the functionality, efficiency, and security of database systems. Below is a discussion on their purpose and a guide to writing a stored procedure in MySQL, including an example template.

**Purpose of Stored Procedures**

**Top of Form**

**6. Explain how the database is stored in primary memory and secondary memory for usage**

**Ans 6.**

When discussing how databases are stored in primary and secondary memory for usage, it's essential to understand the distinct roles and characteristics of these two types of memory in database management systems (DBMS).

**Primary Memory Storage in DBMS**

Primary memory, also