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| **SESSION** | **SEPTEMBER 2022** |
| **PROGRAM** | **MASTER of COMPUTER APPLICATIONS (MCA)** |
| **SEMESTER** | **I** |
| **course CODE & NAME** | **DCA6104 – ADVANCED DATABASE MANAGEMENT SYSTEM** |

**Set – I**

**1. Explain various transaction operations in DBMS.**

**Ans:** To prevent data from failure different backup methods are used. There are three different levels of backup.

**These are discussed as below:**

** Full database backup:** It considers a full backup of the database, or dump of the database.

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**2. What do you mean by Normalization? What are the different normal forms? Explain by giving suitable example.**

**Ans:** The Normalisation Process Normalisation comprises of various set of rules which are used to make sure that the database relations are fully normalised by listing the functional dependencies and decomposing them into smaller, efficient tables.

**3. What are the various types of database management system? Briefly explain**

**Ans: Based on data model**

For database Systems, various models are used based on data model:

 Hierarchical Model

 Network Model

 Relational Model

 Object-relational Model

**Set – II**

**4. What are the three machine architectures upon which parallel DBMS run?**

**Ans: Parallel DBMSs architecture:-**

Now we will briefly discuss the parallel DBMS architecture. There are mainly three machine architectures available on which you can run parallel DBMSs so as to minimise the response time and maximise

**5. Write short notes on**

**a) Video Database Management System**

**Ans: Video Database Management**

The video database management system comprises of open source system. The video database management system research group came up with the extensions and adaptations that were required to support full functionality of the database.

The extensions of the key database consists of store management for video, video pre-

**6. (a) Differentiate between Homogeneous and Heterogeneous Distributed databases?**

**Ans:** Homogeneous and Heterogeneous Database When the database technology is the same at each of the locations and the data at the several locations are also compatible, that data is known as homogenous

**(b) What do you mean by validation-based Protocol in Concurrency Control?**

**Ans: Concurrency Control by Validation**

Transactions can continue without locking. All database modifications are performed on a local copy. We verify if the schedule for transaction is serialisable or not. If it is serialisable, the local copy variations are affected to the global database. Or else, the local modifications