

**International Institute of Health Management Research**  
**Term End Examination**  
**Sub: HIT713 Basics of Data mining and Data warehousing**

**Max. Mark: 70**

**Max Time: 02:00 Hrs**

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**Que 1: Attempt all Questions**

**10\*1 M**

1. Data warehouse architecture is based on .....
  - A) DBMS
  - B) RDBMS
  - C) Sybase
  - D) SQL Server
  
2. The core of the multidimensional model is the ..... , which consists of a large set of facts and a number of dimensions.
  - A) Multidimensional cube
  - B) Dimensions cube
  - C) Data cube
  - D) Data model
  
3. Business Intelligence and data warehousing is used for .....
  - A) Forecasting
  - B) Data Mining
  - C) Analysis of large volumes of product sales data
  - D) All of the above
  
4. .... are designed to overcome any limitations placed on the warehouse by the nature of the relational data model.
  - A) Operational database
  - B) Relational database
  - C) Multidimensional database
  - D) Data repository

5. Which of the following is not a kind of data warehouse application?
  - A) Information processing
  - B) Analytical processing
  - C) Data mining
  - D) Transaction processing
6. The type of relationship in star schema is .....
  - A) many to many
  - B) one to one
  - C) one to many
  - D) many to one
7. An ..... system is market-oriented and is used for data analysis by knowledge workers, including managers, executives, and analysts.
  - A) OLAP
  - B) OLTP
  - C) Both of the above
  - D) None of the above
8. Which of the following is not an Schema?
  - A. Database Schema
  - B. Physical Schema
  - C. Critical Schema
  - D. Logical Schema
9. A data warehouse is .....
  - A) updated by end users.
  - B) contains numerous naming conventions and formats
  - C) organized around important subject areas
  - D) contain only current data
10. Data warehouse contains ..... data that is never found in the operational environment.
  - A) normalized
  - B) informational
  - C) summary
  - D) denormalized

**Que. 3: Solve Any Three**

**(3\* 20) M**

1. Examine the steps involved for the design and construction of data warehouses. Write detailed note on how OLAP technology helps in discovery driven exploration of data cubes.
2. What factors lead to the mining of data? Write a note on Data Mining
3. What is Data Mart. What are the importance of Data mart? Differentiate between Dependent Data Mart and Independent Data mart
4. Explain the ETL (Extract, Transform, Load) cycle. Explain the role of Meta data in a data warehouse.
5. Explain life cycle of Data warehouse