1 (a) (d)

2 (a) (b) (c)

3 (b)

4 (b)

5 (a)

6 (c)

7 (b)

8 (b)

9 (b)

10 (c)

11 . In computing, a data warehouse, also known as an enterprise data warehouse, is a system used for reporting and data analysis, and is considered a core component of business intelligence.

12 . **OLTP** and **OLAP**: The two terms look similar but refer to **different** kinds **of** systems. Online transaction processing (**OLTP**) captures, stores, and processes data from transactions in real time. Online analytical processing (**OLAP**) uses complex queries to analyze aggregated historical data from **OLTP** systems.

13 There are three prominent data warehouse characteristics: Integrated: The way data is extracted and transformed is uniform, regardless of the original source. Time-variant: Data is organized via time-periods (weekly, monthly, annually, etc.). **Non**-volatile: A data warehouse is not updated in real-time.

14 In computing, the star schema is the simplest style of data mart schema and is the approach most widely used to develop data warehouses and dimensional data marts.

15 By Vangie Beal Short for **Set** Theory as a Language (or **Set** Language), **SETL** is a high-level programming language that's based on the mathematical theory of sets. It was developed in the early 1970's by mathematician Professor J.