

**DIPLOMA - VIEP - COMPUTER SCIENCE AND
ENGINEERING (DCSVI)**

Term-End Examination

December, 2014

00234

BICS-038 : DATABASE MANAGEMENT SYSTEM

Time : 2 hours

Maximum Marks : 70

Note : Attempt any *five* questions. Question no. 1 is *compulsory*.

1. Choose the correct answer :

7×2=14

(a) The _____ is the software tool to store or access data.

- (i) table
- (ii) DBMS
- (iii) query
- (iv) report

(b) The _____ field is used to hold a yes or no answer.

- (i) object
- (ii) number
- (iii) text
- (iv) logical

- (c) _____ is used to build intuitive queries.
- (i) SQL
 - (ii) Xbase
 - (iii) QBE
 - (iv) XML
- (d) SQL stands for
- (i) Standard Query Language
 - (ii) Structured Query Language
 - (iii) Simplified Query Language
 - (iv) Static Query Language
- (e) The _____ is used to access one record at a time.
- (i) query
 - (ii) filter
 - (iii) form
 - (iv) report
- (f) The most popular commercial DBMS is
- (i) Microsoft SQL server
 - (ii) Microsoft Access
 - (iii) MySQL
 - (iv) Oracle

- (g) Search engines use a(n) _____ to automatically index sites.
- (i) crawler
 - (ii) query
 - (iii) enterprise
 - (iv) site builder
2. (a) Explain the difference between life system and database system. 7
- (b) Define constraint. How do you explain integrity constraint ? 7
3. (a) What are database languages ? Write short notes on Schema and Instance. 3+2+2
- (b) Define Performance tuning. Write short note on Index data structure. 7
4. (a) What is Schema ? Explain the different types of Data Models. 7
- (b) Explain the enforcing policies of Integrity constraint. 7
5. (a) Explain in detail about BCNF. 7
- (b) Define NULL value. Explain outer join operations in SQL. 7

6. (a) Explain in detail about Lock Based Concurrency. 7
- (b) Explain First and Second Normal Form in detail. 7
7. Write short notes on any *four* of the following : $4 \times 3 \frac{1}{2} = 14$
- (a) E-R diagram
 - (b) SQL Query
 - (c) Index File Organisation
 - (d) SQL Triggers
 - (e) Hashing
 - (f) Deadlock
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