Time: 2½ Hrs.   Marks: 75

Note: 1) All questions are compulsory.
        2) Figures to the right indicate marks.

Q.1   A   State whether the following statements are True / False :   (8)

1. The OSI model consists of eleven layers.
2. A query is applied on tables in a database.
3. Database can be encrypted with a password.
4. Fields can be added or deleted from a query in the Design View.
5. RDBMS is a collection of programs that enables the user to create, maintain, store and modify a database.
6. Form minimizes data entry errors.
7. If two tables are joined, we can use the data from both tables in a query.
8. We cannot print selected records from a table.

Q.1   B   Select the appropriate option from the following :   (7)

1. A ...... is a connection between the data stored in one relational database table and another.
   a) Relationship   b) Connection
   c) Tuple   d) Attribute

2. The full form of the acronym SMTP is ....
   a) Simple Mail Transfer Protocol
   b) Solve Many Transport Protocol
   c) Simple Manager Total Protocol
   d) Simple Message Transport Protocol

3. The .... layer is the lowest layer of OSI model.
   a) Physical layer   b) Transport layer
   c) Network layer   d) Session layer

4. The properties of a form can be modified through ....
   a) Design View   b) Datasheet View
   c) Pivot Table view   d) Any of these

5. Which data type is most suitable for storing the primary key?
   a) Hyperlink   b) Text
   c) OLE Object   d) AutoNumber

6. Which of these objects is used to create forms?
   a) Tables and Queries
   b) Tables only
   c) Queries and Reports
   d) Tables and Reports

7. Which protocols are used for sending E-mail?
   a) SMTP and POP3
   b) SMTP and MIME
   c) MIME and IMAP
   d) POP3 and IMAP

Q.2   **Answer the following questions (any 3) :**   **(15)**

    a.   Explain OSI Reference Model in detail with diagram.

    b.   Explain any three different types of Internet connections.

    c.   What are the different features of Java programming language?

    d.   Write short note on: 1) POP3 and 2) MIME

Q.3   **Answer the following questions (any 3) :**   **(15)**

    e.   What is DBMS? What are the advantages of DBMS?

    f.   Explain the following terms used in databases
        1) Entities   2) Relation.

    g.   Explain the terms DML and DCL with reference to DBMS.

    h.   Explain any five different types of data types used in database.

Q.4   **Answer the following questions (any 3) :**   **(15)**

    i.   Write the steps needed to create a GUI form from an existing table.

    j.   Explain the steps for hiding a column.

    k.   Explain External tab on the ribbon.

    l.   Write the steps to create Input Mask in a table.

Q.5   **Answer the following questions (any 3) :**   **(15)**

    m.   Explain different types of access objects in database.

    n.   Explain different types of relationship in database.

    o.   What are the steps to design the update query in Design view?

    p.   Write the steps to create a Blank report in MS Access.

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