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**Unit-II**

2. (a) What is an Array ? Classify and describe them.
- (b) Describe select case statement using any example.
- (c) Write short notes on the following :
  - (i) Scope of the variables
  - (ii) User defined data types

**Unit-III**

3. (a) What do you mean by VB controls ? Classify and explain them.
- (b) Explain debug toolbar from Visual Basic.
- (c) Using any example write steps to create a Menu in VB.

**Unit-IV**

4. (a) Describe sequential access file handling method and its functions.
- (b) What is DAO ? Write its application in VB.
- (c) Write short notes on :
  - (i) Structured Query Language (SQL)
  - (ii) Data Form Wizard

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**Unit-V**

5. (a) What do you mean by MDI ? Write steps to create an MDI form in VB.
- (b) Write steps to create a Data Report in VB.
- (c) Write short notes on the following :
- (i) DTPicker
  - (ii) Use of Print Dialog
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- (c) डेटा मॉडल के विभिन्न प्रकारों का वर्णन कीजिए।

Explain the different types of data models.

### इकाई / Unit-II

2. (a) E-R मॉडल क्या है? E-R मॉडल में उपयोग होने वाले संकेत चिह्न (notation) को समझाइए।

What is E-R model? Explain the different notations used in E-R model.

- (b) Key की अवधारणा क्या है? विभिन्न प्रकार के Key की व्याख्या कीजिए।

What is the concept of Keys? Explain different kinds of key.

- (c) जनरलाईजेशन से आपका क्या तात्पर्य है? इसे समझाइए।

What do you mean by generalization? Explain it.

### इकाई / Unit-III

3. (a) रिलेशनल अल्जेबरा क्या है? रिलेशनल अल्जेबरा में विभिन्न ऑपरेशन्स लिखिए।

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What is Relational Algebra? Write the different operations in relational algebra.

(b) रिलेशनल अल्जेबरा के प्रयोग से Complex Queries को समझाइए।

Explain Complex Queries using Relational Algebra.

(c) निम्नलिखित पर संक्षिप्त टिप्पणियाँ लिखिए :

(i) डोमेन रिलेशनल कलकुलास

(ii) टुपल रिलेशनल कलकुलास

Write short notes on the following :

(i) Domain Relational Calculus

(ii) Tuple Relational Calculus

#### इकाई / Unit-IV

4. (a) डिकम्पोजिशन क्या है? इसे समझाइए।

What is Decomposition? Explain it.

(b) नॉर्मलाइजेशन एवं डी-नॉर्मलाइजेशन क्या है? नॉर्मलाइजेशन का क्या उद्देश्य है?

What is Normalization and Denormalization? What is the purpose of normalization?

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- (c) BCNF और 3NF (थर्ड नॉर्मल फॉर्म) में क्या अन्तर है ?

What is the difference between BCNF and Third normal form (3NF) ?

**इकाई / Unit-V**

5. (a) किन्हीं पाँच DDL और DML कमाण्ड्स को समझाइए।

Explain any five DDL and DML commands.

- (b) SQL में View क्या है ?

What is view in SQL ?

- (c) निम्नलिखित पर संक्षिप्त टिप्पणियाँ लिखिए :

(i) ग्रूप फंक्शन

(ii) RDBMS Oracle की सुरक्षा

Write short notes on the following :

(i) Group function

(ii) Security of RDBMS Oracle



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- (b) Describe the need of security of data on internet. Also explain network security in brief.
- (c) Write short notes on the following :
  - (i) Firewall tunnels
  - (ii) Digital signature

### **Unit-III**

- 3. (a) Explain essential HTML tags for a web page.
- (b) Explain the following tags with example :
  - (i) Link
  - (ii) CSS
- (c) What do you mean by a list ? Write its types with example.

### **Unit-IV**

- 4. (a) Explain insertion of images in a web page along with its attributes.
- (b) What is Frame ? How a frame is used ? Explain.
- (c) Write short notes on the following :
  - (i) Font
  - (ii) HREF

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**Unit-V**

5. (a) By describing domain names write its registration system.
- (b) Write a note on hosting and promotion of websites. Explain web space allocation.
- (c) Describe FTP and banner advertisement.
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