AV–1747

B.Sc. (Part–II) Semester–III Examination
3S : COMPUTER APPLICATION (VOC.)
(Visual Basic and RDBMS)
(Old)

Time : Three Hours]　　　　　　　　　　　　　　　　[Maximum Marks : 80

Note :— (1) All questions are compulsory.

(2) Assume suitable data wherever necessary.

1. (A) Fill in the blanks (½ marks each) :

　　(i) _____ is a standard language used to access data in databases.

　　(ii) The real world object is called _____.

　　(iii) _____ is the foundation control in any window based application.

　　(iv) A _____ data type can store only characters.　　　　2

　(B) Choose the correct alternatives (½ marks each) :

　　(i) Which of the following is not a type of database ?

　　　　(a) Network　　　　　　　　(b) Relational

　　　　(c) Transition　　　　　　　(d) Hierarchical

　　(ii) SQL has one of the statement for retrieving information from a database; that statement is _____.

　　　　(a) The SELECT statement　　(b) The START statement

　　　　(c) The SINGLE statement　　(d) None of the above

　　(iii) _____ property determines whether a control responds to the user or not.

　　　　(a) Visible　　　　　　　　(b) Name

　　　　(c) Enabled　　　　　　　　(d) Caption

　　(iv) The _____ function is an alternative to the If---ELSE statement.

　　　　(a) Choose( )　　　　　　　(b) If( )

　　　　(c) IIf( )　　　　　　　　(d) None of the above　　　2

　(C) Answer in **one** sentence (**1** mark each) :

　　(i) What is key ?

　　(ii) What is a Data Definition language ?

　　(iii) What is the only event that is supported by menu control ?

　　(iv) What is the statement used for explicit declaration of a variable in VB ?　　4

2. (A) What is Visual Basic ? Explain visual nature of VB.　　6

　(B) Explain events, properties and methods in VB.　　6

OR

3. (A) Explain integrated development environment of VB with appropriate diagrams.　　6

　(B) Explain the following :

　　(i) Form Designer.

　　(ii) New Project Window.

　　(iii) Project Explorer Window.　　6

4. (A) Explain the following controls with any four properties :
       (i) Command Button.
       (ii) Text Box.
       (iii) Line Object.   6
    (B) Explain Data Control with its basic properties.   6

OR

5. (A) Explain Combo Box Control with suitable program example.   6
    (B) Explain List Box Control with suitable program example.   6
6. (A) Explain the different operators in VB.   6
    (B) Explain the following statements with syntax and example :
       (i) Do While---Loop.
       (ii) Do---Loop Until.
       (iii) Select case with Is clause.   6

OR

7. (A) Explain the following :
       (i) Rules for valid variable naming.
       (ii) Implicit declaration of variables.
       (iii) Storage of various types of variables.   6
    (B) Explain IIF( ) function with its syntax and suitable example.   6
8. (A) Explain relational and network data models.   6
    (B) Explain the following with suitable example :
       (i) Relation.
       (ii) Primary key.
       (iii) Normal form.   6

OR

9. (A) Explain the concept of functional dependancy with suitable example. 6
    (B) What is normalization ? Explain BNCF with suitable example.   6
10. (A) What is SQL ? What are the characteristics of SQL ?   6
    (B) Explain SELECT command with WHERE and ORDER BY clauses.   6

OR

11. (A) Explain the following commands with example :
       (i) CREATE
       (ii) COMMIT
       (iii) GROUP BY clause.   6
    (B) Explain DML command with syntax and example.   6
12. (A) Explain the following functions with syntax and suitable example :
       (i) TRUNC( )
       (ii) INSTR( )
       (iii) DECODE( )   6
    (B) Explain the following :
       (i) Equi-join
       (ii) Outerjoin
       (iii) Unions.   6

OR

13. (A) Explain conversion functions with suitable examples.   6
    (B) What is data integrity and constraints ? Explain it.   6