

**B.Sc. (Part—II) Semester—IV Examination**  
**COMPUTER APPLICATIONS (Voc.)**  
**(Advanced VB and RDBMS)**

Time : Three Hours]

[Maximum Marks : 80

**Note :—** (1) Question 1 is compulsory and carry 8 marks.

(2) Questions 2 to 13 carry equal marks.

(3) Assume suitable data wherever necessary.

1. (a) Fill in the blanks : 2
- (i) IDE stands for \_\_\_\_\_.
  - (ii) \_\_\_\_\_ window displays a list of all forms and modules making up the application.
  - (iii) PL/SQL stands for \_\_\_\_\_.
  - (iv) \_\_\_\_\_ is used to define the code that is executed/fired when certain actions or event occurs.
- (b) Choose the correct alternative : 2
- (i) In Event Driven Programming, an event is generated by \_\_\_\_\_.
    - (a) The system
    - (b) User's Action
    - (c) The program itself
    - (d) All of the above  - (ii) The default data type for Visual Basic is \_\_\_\_\_.
    - (a) Integer
    - (b) Boolean
    - (c) Variant
    - (d) String  - (iii) Find the odd one out of the following :
    - (a) OPEN
    - (b) CLOSE
    - (c) INSERT
    - (d) FETCH  - (iv) Which of the following data types are supported by PL/SQL ?
    - (a) Scalar
    - (b) Composite
    - (c) Both (a) and (b)
    - (d) None of the above
- (c) Answer in one sentence each : 4
- (i) What is an event driven programming ?
  - (ii) What is the use of Form Layout Window ?
  - (iii) What is an explicit cursor ?
  - (iv) What is a transaction in PL/SQL ?
2. (a) Explain Visual Basic program structure. 6
- (b) Explain the data sharing mechanism of Visual Basic procedures. Give example. 6
- OR**
3. (a) What is a procedure in Visual Basic ? Explain private and public procedures with example. 6
- (b) How control values can be passed to procedures ? Explain it. 6

4. (a) State and explain the database handling features of Visual Basic. 6  
(b) State and explain Active X data objects alongwith their advantages. 6

**OR**

5. (a) What is a data control ? How it is set up and used in Visual Basic ? Explain. 6  
(b) Write Visual Basic Code to create a student database and hold the name, phone number, fees and result for each student. 6
6. (a) Explain formatting with fonts. Explain with suitable examples. 6  
(b) Write Visual Basic functions for the following : 6  
(i) String concatenation  
(ii) Finding length of a string.

**OR**

7. (a) What is scaling of output ? How it is done in Visual Basic ? 6  
(b) Write steps for Database connection in VB. 6
8. (a) What is PL/SQL ? Describe its architecture. 6  
(b) Explain the following with respect to PL/SQL transactions : 6  
(i) COMMIT  
(ii) ROLLBACK  
(iii) SAVEPOINT.

**OR**

9. (a) Explain the control structures supported by PL/SQL. 6  
(b) What is a cursor ? Describe create, open, fetch and close operations. 6
10. (a) State the importance of security. What are different types of securities ? 6  
(b) What is a database trigger ? Explain with example. 6

**OR**

11. (a) What is a security privilege ? Explain their types. 6  
(b) How the user roles can be created ? How permissions are granted to user roles ? 6
12. (a) What is dynamic SQL ? State its advantages over static SQL. 6  
(b) Explain the procedure for creating and running reports. 6

**OR**

13. (a) What is a dynamic query ? Explain with example. 6  
(b) Explain the following : 6  
(i) Creating forms  
(ii) Editing forms  
(iii) Querying forms.