

**B.Sc. (Part-III) Semester-V Examination**  
**COMPUTER SCIENCE (Old) (Upto W/2020)**  
**(RDBMS and Visual Basic)**

Time : Three Hours]

[Maximum Marks : 80

**Note :—** (1) All questions are compulsory.

(2) Question No. 1 carries 8 marks and all other questions carry 12 marks each.

(3) Assume suitable data wherever necessary.

1. (A) Fill in the blanks :

- (i) In relational model, the combination of Tuple and Attribute is called as \_\_\_\_\_.
- (ii) In entity relationship diagram, the symbol rectangle is used for \_\_\_\_\_.
- (iii) \_\_\_\_\_ is the only tool in a toolbox which is not a control.
- (iv) The control \_\_\_\_\_ is used in such situation where user wants to select one and only one choice among the several choices. 2

(B) Choose the correct alternatives :

- (i) \_\_\_\_\_ clause is a conditional option which is directly related to group by clause.
 

(a) Order by	(b) Having
(c) As	(d) Is
- (ii) \_\_\_\_\_ command is used to display the data from table.
 

(a) Delete	(b) Insert
(c) Select	(d) Update
- (iii) Which of the following control is not a part of toolbox ?
 

(a) Frame Control	(b) Text Box
(c) Command Button	(d) Form Control
- (iv) If variable a, b and c are of integer datatype, then find out the value of C.  
 $a = 14, b = 4$  calculate  $c = a/b$  :
 

(a) 2	(b) 4
(c) 3.5	(d) 3

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- (C) Answer in **one** sentence each :
- (i) What is a domain ?
  - (ii) BCNF stands for ?
  - (iii) What is an event ?
  - (iv) What is project ?
2. (A) Explain advantages and disadvantages of database system. 4
- (B) Explain Data Dictionary and Data Independence. 6
- OR**
3. (A) Explain network database model with suitable example. 6
- (B) Explain the following terms :
- (i) Internal Level
  - (ii) External Level
  - (iii) Conceptual Level. 6
4. (A) What is ER diagram ? Explain various ER diagram symbols with suitable example. 6
- (B) What is normalization ? Explain 2NF with suitable example. 6
- OR**
5. (A) What is key ? Explain various types of keys with suitable example. 6
- (B) Explain the following terms :
- (i) Domain and Attribute
  - (ii) Functional Dependency. 6
6. (A) Explain the following commands with example :
- (i) ALTER
  - (ii) INSERT
  - (iii) DROP. 6
- (B) Explain ORDER by clause in SELECT command with syntax and example. 6
- OR**
7. (A) Explain commands with syntax and suitable example :
- (i) UPDATE
  - (ii) DELETE
  - (iii) CREATE. 6
- (B) What is datatype ? Explain datatypes supported by SQL. 6

8. (A) Why VB is called event driven programming ? Explain. 6  
(B) Explain the following :  
(i) New Project Window  
(ii) Property Window. 6

**OR**

9. (A) Explain the difference between :  
(i) Picture Box and Image Control  
(ii) Text Box and Label Control. 6  
(B) Explain events and properties associated with a form. 6
10. (A) What is datatype ? Explain datatypes supported by Visual Basic. 6  
(B) What is menu editor ? Write down the procedure to create menus using menu editor in VB. 6

**OR**

11. (A) What is operator ? Explain conditional and logical operators in VB. 6  
(B) Write a program in VB to test whether entered integer number is Palindrome or not. 6
12. (A) Explain InputBox ( ) function with syntax and example. 6  
(B) What is user defined function in Visual Basic ? Explain with syntax and example. 6

**OR**

13. (A) Explain the concept of passing data by reference with suitable example. 6  
(B) Explain following functions with suitable example :  
(i) Left ( )  
(ii) Round ( )  
(iii) Ltrim ( )  
(iv) Val ( )  
(v) Len ( )  
(vi) Sqr ( ). 6

