

B.Sc. (Part-III) Semester—V Examination
COMPUTER SCIENCE
(RDBMS and Visual Basic)

Time : Three Hours]

[Maximum Marks : 80

N.B. :— (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) Entities having primary key are called _____.

(ii) _____ is a standard language used to access data held in RDBMS.

(iii) _____ operator returns the remainder from an integer division.

(iv) A procedure declared as _____ can be used only within its own module. 2

(b) Choose the correct alternative :

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

(a) Hierarchical

(b) Network

(c) Relational

(d) Transition

(ii) _____ is used to modify existing rows of the table.

(a) ALTER

(b) MODIFY

(c) UPDATE

(d) None of these

(iii) _____ property determines how the command button responds to ENTER key.

(a) Caption

(b) Name

(c) Cancel

(d) Default

- (iv) A _____ data type can store values in the range 0 to 255.
- (a) Date (b) Byte
(c) Integer (d) Variant 2
- (c) Answer in **ONE** sentence :
- (i) What is data dictionary ?
(ii) What is view ?
(iii) What is project ?
(iv) What is event ? 4
2. (a) Explain the architecture of database system with suitable diagram. 6
(b) Explain data independence with example. 6
- OR**
3. (a) What is database ? Explain the advantages of database. 6
(b) Explain the hierarchical and network database model with example. 6
4. (a) What is normalization ? Explain 1NF with suitable example. 6
(b) Explain the following with example :
(i) Relation (ii) Domain (iii) Attribute. 6
- OR**
5. (a) What is E-R diagram ? Draw an E-R diagram for teacher, students and their relationship. 6
(b) Explain functional dependency with suitable example. 6
6. (a) Explain the following commands with example :
(i) UPDATE (ii) ALTER. 6
(b) What is sorting ? Explain the ORDER by clause with syntax and example. 6
- OR**
7. (a) Explain the components of SQL with example. 6
(b) Explain the GROUP BY and HAVING clause with syntax and example. 6

8. (a) Explain event driven programming. 6
(b) Explain the difference between picture box and image control. 6

OR

9. (a) Explain the following :
(i) Form layout window
(ii) Menu Bar. 6
(b) Explain any four common events in VB controls. 6
10. (a) Explain data types in Visual Basic. 6
(b) Explain the following with syntax and example :
(i) For....Next
(ii) Select Case. 6

OR

11. (a) Explain with example application wizard to generate a menu. 6
(b) What is variable ? Explain declaration of variables with syntax and example. 6
12. (a) What is private and public procedure ? What are the differences between them. 6
(b) Explain input box () with suitable example. 6

OR

13. (a) Explain passing control as argument to the procedure with suitable example. 6
(b) Explain the following functions with example :
(i) int ()
(ii) iif ()
(iii) cdate ()
(iv) Isdate (). 6

