

B.Sc. Part-III (Semester-V) Examination

5S : COMPUTER SCIENCE

(RDBMS and Visual Basic)

Time : Three Hours]

[Maximum Marks : 80

Note :— (1) All questions are compulsory.

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

(3) Assume suitable data wherever necessary.

1. (A) Fill in the blanks :

(i) BCNF stands for _____.

(ii) _____ command is used to display the data from table.

(iii) A _____ is a collection of all files that make up your VB application.

(iv) The procedure associated with VB control is called _____ procedure. 2

(B) Choose the correct alternatives :

(i) Which is not DDL command ?

(a) CREATE

(b) ALTER

(c) INSERT

(d) DROP

(ii) _____ clause is used for sorting the data.

(a) ORDER BY

(b) INSERT

(c) HAVING

(d) CREATE

(iii) _____ statement is used to transfer control from one statement to another.

(a) Pass To

(b) Go To

(c) Transfer To

(d) Go

(iv) The _____ function is used to display both date and time in VB.

(a) Time

(b) Date

(c) Now

(d) Today 2

(C) Answer in **one** sentence :

- (i) DML stands for ?
- (ii) What is main role of DBA ?
- (iii) What is an event ?
- (iv) What is an accelerator key ?

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2. (a) What is database ? Explain components of database system.
- (b) Explain Hierarchical and Network model.

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OR

3. (a) Explain Architecture of database system with different three levels.
- (b) Explain Data Independence and Data Dictionary.
4. (a) What is ER diagram ? Explain various ER diagram symbols.
- (b) What is Normalization ? Explain 1 NF and 2 NF with suitable example.

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OR

5. (a) Explain the following :
- (i) Functional Dependency
 - (ii) Domains and Attribute.
- (b) Explain 3 NF with example.
6. (a) Explain following commands :

- (i) SELECT
- (ii) CREATE
- (iii) DROP.

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- (b) What is view ? How view can be created and dropped ? Explain.

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OR

7. (a) Explain following operators with suitable example :
- (i) LIKE
 - (ii) BETWEEN
 - (iii) IN.
- (b) Explain ORDER by clause in SELECT command with syntax and example.

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8. (a) Explain the following :
- | | | |
|------------------------|--------------------------------|---|
| (i) Visual Programming | (ii) Event Driven Programming. | 6 |
|------------------------|--------------------------------|---|
- (b) Explain the following with basic properties :
- | | | |
|--------------|-------------------|---|
| (i) Text Box | (ii) Picture Box. | 6 |
|--------------|-------------------|---|
- OR**
9. (a) Explain the following :
- | | | |
|------------------------|-----------------------|---|
| (i) New Project Window | (ii) Property Window. | 6 |
|------------------------|-----------------------|---|
- (b) Explain the following with basic properties :
- | | | |
|--------------------|--------------------|---|
| (i) Command Button | (ii) Image Control | 6 |
|--------------------|--------------------|---|
10. (a) Explain conditional and logical operators in VB. 6
- (b) Explain the following with example :
- | | | |
|----------------------|----------------------|---|
| (i) Nested If---Else | (ii) Nested for loop | 6 |
|----------------------|----------------------|---|
- OR**
11. (a) Explain creation of menu bar using menu editor. 6
- (b) Explain various data types in VB. 6
12. (a) Explain MsgBox () function with syntax and example. 6
- (b) Explain the concept of passing data by reference with suitable example. 6
- OR**
13. (a) Explain the following with example :
- | | | |
|---------------|--------------------|---|
| (i) Check Box | (ii) Option Button | 6 |
|---------------|--------------------|---|
- (b) Explain function procedure with syntax and suitable example. 6

