

- (b) What is Normalization ? Explain first three normal forms with example. 8.8
9. (a) What are Deadlocks ? How these are prevented and detected ?
- (b) Explain two phase locking. How is it helpful in transaction management ? 8.8

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Roll No :

Total No. of Questions : 9 | [Total No. of Pages : 4

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MCA (Bridge Course) 1st Semester (Regular)
Examination, March-2022
(MCA 2 Year Programme)

(w.e.f. 2020-21)

Paper-20BCC11C3

VISUAL BASIC AND DATABASE SYSTEMS

Time : Three Hours]

[Maximum Marks : 80

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note :- Attempt five questions in all, selecting one question from each Unit. Q. No. 1 is compulsory. All questions carry equal marks.

1. (a) What is event driven programming ?
(b) What is array ?
(c) What is ADO ?
(d) What is the difference between procedure and function in VB ?

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- (e) What is physical data independence ?
- (f) What is union operation in relational algebra ?

- (g) What are properties of a transaction ?
- (h) What is concurrency control ? 2×8=16

Unit-I

- 2. Explain the following controls in VB with the help of example :

- (i) Text box
- (ii) Command button
- (iii) List box
- (iv) Timer 4×4=16

- 3. (a) What are various data types available in VB ? Explain in detail.

- (b) What is String ? Explain any four string operations in VB. 8.8

Unit-II

- 4. (a) What is MIDI form ? How MIDI forms are created in VB ? Explain with the help of example.

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- (b) What is Dialog Box ? Explain common dialog control in VB. 8.8

- 5. (a) What is Menu ? How menu is created in VB ? Explain using step-by-step process.

- (b) How database connectivity is done in VB ? Explain with the help of example. 8.8

Unit-III

- 6. (a) Define database and database management system. What are the advantages of using database over file management system ?

- (b) Explain the three-level architecture of a DBMS and discuss its various components. 8.8

- 7. (a) Define the term data model and explain different types of data models.

- (b) Define the term data integrity and explain its types. 8.8

Unit-IV

- 8. (a) What do you understand by functional dependency and transitive dependency ? Explain with the help of example.

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