

MCAE-502B**WINDOWS PROGRAMMING WITH VB**

Time Allotted: 3 Hours

Full Marks: 70

*The questions are of equal value.**The figures in the margin indicate full marks.**Candidates are required to give their answers in their own words as far as practicable.***GROUP A****(Multiple Choice Type Questions)**

1. Answer all questions. 10×1 = 10
- (i) The default property of Image Box is
- | | |
|-------------|-----------|
| (A) value | (B) text |
| (C) picture | (D) shape |
- (ii) A collection holds a series of
- | | |
|---------------|-------------|
| (A) functions | (B) class |
| (C) variables | (D) objects |
- (iii) The Free File function can be used to
- | | |
|-------------------------------------|-----------------------|
| (A) find next available file number | (B) delete a file |
| (C) find next available file | (D) find deleted file |
- (iv) The LOF function returns the length of a
- | | |
|-----------------|---------------------|
| (A) random file | (B) sequential file |
| (C) record set | (D) none of these |
- (v) The Me keyword refers to the
- | | |
|------------------------------|-------------------------|
| (A) current selected control | (B) current active form |
| (C) current file | (D) none of these |

- (vi) The purpose of Val function is to convert
- (A) numeric to date (B) numeric to text
(C) text to numeric (D) none of these
- (vii) Which control is not visible at run time
- (A) slider (B) timer
(C) text box (D) frame
- (viii) In class _____ method is used to assign a value to a property
- (A) set (B) get
(C) let (D) assign
- (ix) Which of the following is not an MDI application?
- (A) Microsoft Word (B) Microsoft Excel
(C) Microsoft Power Point (D) Notepad
- (x) RDO stands for
- (A) Remote Data Object
(B) Random Access Data Object
(C) Rapid Access Data Object
(D) Rapid Development Object

GROUP B
(Short Answer Type Questions)

Answer any *three* questions.

3×5 = 15

2. (a) What do you mean by scope of a variable? 2
(b) Distinguish between Module level and Procedure level variables. 3
3. What is a Data-aware Control? What are the roles of the DbList, DbCombo and DbGrid controls respectively when placed on a form? 5

4. (a) What is Multiple Document Interface(MDI)? 2
 (b) Write an event procedure for a command button to find the smallest among the three (3) numbers given. 3
5. Write an event procedure to generate even 5 numbers from 1 to 100. 5
6. (a) Where will we give the option explicit keyword and for what? 2
 (b) What is option base? What is the difference between option base and option explicit? 1+2

GROUP C
(Long Answer Type Questions)

Answer any *three* questions.

3×15 = 45

7. Explain the following with example 5×3
 (a) Timer control
 (b) Class Module
 (c) Listbox control
 (d) Three-Tier client server model
 (e) Window API
8. (a) How many ways a Visual Basic application can connect to a database? What is ODBC? 3+3
 (b) Briefly explain the ODBC architecture. 6
 (c) What is Seek Method which type of record set is available this? 3
9. (a) What is Dynamic Array? In what situations is it used? Explain with an example. Explain the significance of "Preserve" keyword. 2+2+2+2
 (b) Write an event procedure for a command button to find the factorial of any number. 4
 (c) What is the purpose of menu editor? How is menu editor accessed? 2+1

- 10.(a) Write an event procedure to take a string as input which contains alphabets and special symbols and displays only the special symbols in the same order that they appear in the input. Example: A\$E_J!-"O@U
Output should be: \$_!"@ 6
- (b) Write an event procedure to count the number of negative and non-negative numbers in a given list. 5
- (c) What do you mean by OLE Automation? 4
- 11.(a) Briefly describe JET DAO Model containing Workspace, Databases, and Recordsets etc. 6
- (b) How many types of Record sets are there? 3
- (c) What is the main difference between *Optimistic Locking* and *Pessimistic Locking* in VB. 3
- (d) What is SQL Pass Through? 3