COMPUTER PROGRAMMING (SEMESTER - 2)

CS/BCA/SEM-2/BCA-203/08

1. ....
   Signature of Invigilator

2. ....
   Signature of the Officer-in-Charge

Reg. No.

Roll No. of the Candidate

CS/BCA/SEM-2/BCA-203/08

ENGINEERING & MANAGEMENT EXAMINATIONS, JUNE – 2008

COMPUTER PROGRAMMING (SEMESTER - 2)

Time : 3 Hours]   [Full Marks : 70

INSTRUCTIONS TO THE CANDIDATES :

1. **This Booklet is a Question-cum-Answer Booklet.** The Booklet consists of **32 pages**. **First page** of the Booklet shows Instructions to the Candidates. The **questions** of this concerned subject commence from **Page No. 3**.

2. a)   In **Group – A**, Questions are of Multiple Choice type. You have to write the correct choice in the box provided **against each question**.

   b)   For **Groups – B** & **C** you have to answer the questions in the space provided marked 'Answer Sheet'. Questions of **Group – B** are Short answer type. Questions of **Group – C** are Long answer type. Write on both sides of the paper.

3. Fill in your Roll No. in the box provided as in your Admit Card before answering the questions.

4. Read the instructions given inside carefully before answering.

5. You should not forget to write the corresponding question numbers while answering.

6. Do not write your name or put any special mark in the booklet that may disclose your identity, which will render you liable to disqualification. Any candidate found copying will be subject to Disciplinary Action under the relevant rules.

7. Use of Mobile Phone, Calculator or Log table is totally prohibited in the examination hall.

8. You should return the booklet to the invigilator at the end of the examination and should not take any page of this booklet with you outside the examination hall, which will lead to disqualification.

9. Rough work, if necessary is to be done in this booklet only and cross it through.

No additional sheets are to be used and no loose paper will be provided

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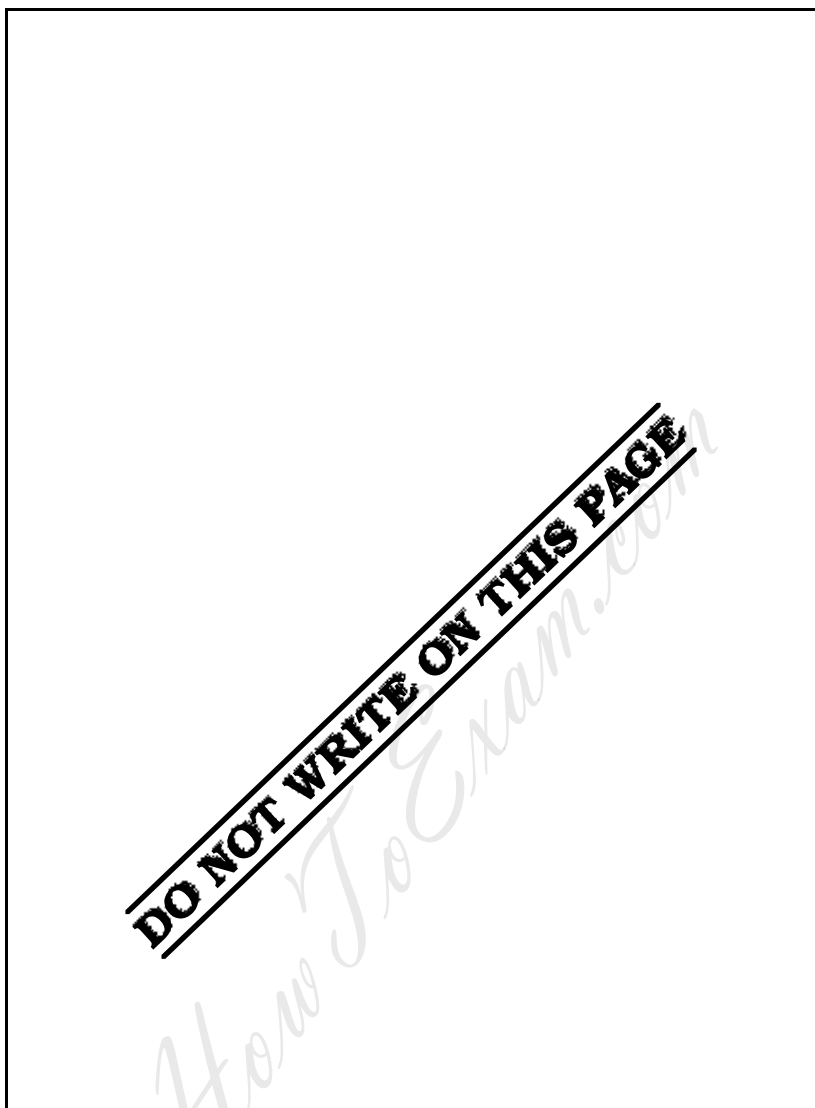### FOR OFFICE USE / EVALUATION ONLY
Marks Obtained

				Group – A							Group – B		Group – C			Total Marks	Examiner's Signature
Question Number																	
Marks Obtained																	

....
Head-Examiner/Co-Ordinator/Scrutineer

II-222466 (3)

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II-222466 (3)

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GROUP – A

(Multiple Choice Type Questions)

1.   Choose the correct alternatives for the following : $10 \times 1 = 10$

    i)   To detect the undefined variable, the statement is

        a)   Option Base   b)   Option Explicit

        c)   Option compare text   d)   None of these.

    ii)   The default lower index of an array is

        a)   2   b)   1

        c)   0   d)   None of these.

    iii)   What will be the result of the following expression 5 MOD 100 ?

        a)   An error   b)   5

        c)   0   d)   20.

    iv)   The type declaration character for data is

        a)   #   b) $

        c)   ~   d)   None of these.

    v)   Dim x, y as integer. What is x and y data type ?

        a) x and y are both integers

        b) x is string and y is integer

        c) x is variant and y is integer

        d) x and y are both local integer variables.

II-222466 (3)

vi)   What is the size of the variant data type ?

    a)   1024   b)   255

    c)   256   d)   None of these.

vii)   Dim n As Integer

    If n = 0 Then

    MsgBox ("ZERO")

    Else

    MagBox ("EMPTY")

    End If

    Output of the code segment is

    a)   ZERO   b)   EMPTY

    c)   Compile Error   d)   None of these.

viii)   Dim c, a As Integer, b As Integer

    a = 10

    b = 3

    c = a \ b

    MsgBox (c)

    Output of the code segment is

    a)   3.3333333   b)   3

    c)   Compile Error   d)   None of these.

ix)   Complexity of selection sort is

    a) $O(n^2)$ b) $O(n\log_2 n)$

    c) $O(n)$ d)   None of these.

x)   ADO is a/an

    a)   method   b)   object model

    c)   inbuilt function   d)   all of these.

II-222466 (3)

5

GROUP – B

(Short Answer Type Questions)

Answer any *three* of the following.   3 × 5 = 15

2. "VB is front-end tool" — Explain with suitable example. What are the advantages of Visual Basic ?   3 + 2

3. Write an application program in VB to print the Fibonacci numbers upto 50.   5

4. Write a Program module to calculate the Factorial of any Number.   5

5. Write the differences between any *two* of the following : $2 \times 2\frac{1}{2}$

   a) List Boxes and Combo Boxes

   b) Option Button and Check Boxes

   c) Input Box and Message Box.

6. Why is VB6 an Event Driven programming language ? Explain with Example.   5

GROUP – C

(Long Answer Type Questions)

Answer any *three* of the following.   3 × 15 = 45

7. Explain loop structure in Visual Basic ? Write a program to print first 50 numbers of a Fibonacci series. Write a program to sort 10 user input numbers is ascending order and display them.   4 + 5 + 6

8. a) What are dynamic array and multidimensional array ? Explain with an example. 5

   b) Write the difference between Public function and Private function.   5

   c) Write a VB code segment to check if a string is palindrome or not. (If a string is same from both sides then it is called palindrome, e.g., MADAM).   5

9. a) Write a VB program to check whether a year is leap year or not.

   b) Write a VB program that allows the user to input his name and print the Initial name. For example : Vinoy Kumar Singh
      Output : V.K.S

   c) What function can be used to convert the lowercase letters to uppercase and vice-versa ?   6 + 6 + 3

II-222466 (3)

10. Write a program to add, edit, delete records to/from the table. What is Option Explicit statement ? Explain with suitable example. Describe the scopes of Dim, Private and Public variables. 5 + 4 + 6

11. Write short notes on *any three* of the following : 3 × 5

   a) Inheritance

   b) Multidimensional array

   c) Structured programming

   d) Cint( ) and Val( )

   e) Random Access File.

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END

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