Name : ....

Roll No. : ....

Invigilator's Signature : ....

CS/B.TECH(CSE)/SEM-7/CS-703/2012-13

2012
VISUAL PROGRAMMING AND WEB TECHNOLOGY

Time Allotted : 3 Hours   *Full Marks :* 70

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. Choose the correct alternatives for the following : 10 × 1 = 10

    i)   Combobox has a method

   a)   addelement   b)   insertelement

   c)   insertitem   d)   additem.

    ii)   List has a property

   a)   list   b)   text

   c)   both (a) and (b)   d)   none of these.

    iii)   Preserve key word is used for preserving......... element.

   a)   a variable   b)   a text box

   c)   a dynamic array   d)   none of these.

    iv)   For decision making in Visual Basic we use

   a)   if then end if   b)   select case
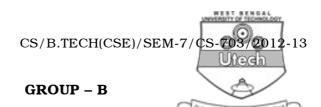
   c)   both (a) and (b)   d)   none of these.

v) "MDI" stands for

a) Multiple data interface

b) Multiple document interface

c) Multiple definition interface

d) None of these.

vi) For database access in Visual Basic we use

a) ADO
b) Data control

c) Both (a) and (b)
d) None of these.

vii) From which of the following locations can an RMI server NOT load classes ?

a) The CLASSPATH of an RMI client

b) The CLASSPATH of an RMI server

c) From an HTTP or FTP server on the network at a location specified by the client

d) From an HTTP or FTP server on the network at a location specified by the server.

viii) To declare an ID selector the symbol........... is used.

a) #
b) $

c) *
d) %.

ix) Which of the following tags has no end tag ?

a) input
b) br

c) hr
d) all of these.

x) In Java Script the function by default returns

a) int
b) char

c) Boolean
d) none of these.

GROUP – B
(Short Answer Type Questions)
Answer any *three* of the following.   3 × 5 = 15

2. a) What do you mean by event driven programming ?

    b) Briefly describe RMI architecture.   2 + 3

3. a) What is the difference between the Generic Variable and Specific variable in VB ?

    b) Describe in process and out of process components in VB. Which is faster ?   2 + 3

4. a) What is class selector ? Give example.

    b) How to access an external JavaScript file that is stored externally and not embedded ?   2 + 3

5. What is the difference between Msgbox Statement and MsgboxQ function ?

GROUP – C
(Long Answer Type Questions)
Answer any *three* of the following.   3 × 15 = 45

6. What is a Servlet ? Discuss with sketch the life cycle of a Servlet as per J2EE 1·4 specification. What do you mean by a Servlet Container ? What are Cookies Discuss their utilities. Discuss the role of session as a vital part of Web Technology.   2 + 5 + 2 + 3 + 3

7. What are scriptlets in a JSP and how do we use them ? Discuss page and include directives in brief. What are JSP acion tags ? How do <jsp:include/> and <jsp:forwrd/> tags differ from each other ? What is the rule of using a <jsp:useBean/>tag ? Compare between JSP and ASP.

                    3 + 2 + 2 + 3 + 2 + 3

8. Write down the steps of interaction between web browser and web server. What are the disadvantages of static web page ? What are the advantages of client side scripting ? Why are active web pages better solution than dynamic web page and in which scenario we should not use active web page ? Describe the 3 tier architecture. $4 + 2 + 2 + (2 + 2) + 3$

9. Why VB is known as event driven programming ? What is the differences between control array and Array in VB ? Explain the format of MSGBOX() and INPUTBOX() function with proper example. What is meant by Active X control and what are the different types of Active X control. Explain the dynamic array creation with proper example.

$2 + 3 + 4 + 1 + 2 + 3$

10. Write short notes on any three of the following topics : 3×5

    (i) World Wide Web

    (ii) Web server and Web browser

    (iii) Plug-ins

    (iv) JNI

    (v) Entity Bean.