Name : ....

Roll No. : ....

Invigilator's Signature : ....

CS/B.Tech (CSE)/SUPPLE/SEM-7/CS-703/2010
2010
VISUAL PROGRAMMING & 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)   Which of the following controls in VB provides a set of
         choices to user ?

         a)   Label   b)   Combo Box

         c)   Timer   d)   Frame.

    ii) Which of the following methods of an Applet is called
         only once in its life-cycle ?

         a)   init ()   b)   start ()

         c)   paint ()   d)   destroy ()

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iii) Which of the following is used by Web services for data transport ?

a) HTML   b) XML

c) DML   d) VHDL

iv) Which of the following statements is true ?

a) HTTP is stateless in nature

b) TCP is connectionless protocol

c) Generic servlets support HTTP

d) Servlets are executed at client-side.

v) Your application supports multiple client types including HTTP clients. Your business layer is implemented using Enterprise Java Beans. Which of the following is best suited for maintaining client state ?

a) Stateful session beans

b) Entity beans

c) HttpSession attributes

d) Cookies.

vi) Which enterprise bean type is defined without any client view interfaces ?

    a) Message Driven bean

    b) CMP Entity bean

    c) BNP Entity bean

    d) Stateful Session bean.

vii) Whenever a CGI script is invoked, the server creates .... process for it.

    a) different   b) same

    c) many   d) simple.

viii) Variables are declared in JavaScript using which of the following ?

    a) dim   b) var

    c) function   d) variable.

ix) JSP is

    a) HTML tags embedded within java code

    b) Java code embedded within HTML tags

    c) VB Script embedded with in HTML tags

    d) None of these.

x) Which one of the following is an expression element in context with JSP ?

    a) <% = x%>

    b) <%! int x = 0%>

    c) <% out.println ("Hello World")%>

    d) None of these.

GROUP – B

(Short Answer Type Questions)

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

2. What is Multiple Document Interface (MDI) ? What are the advantages of MDI forms and its features ?   1 + 4

3. a) Explain InputBox () and MsgBox () functions of Visual Basic.   2

    b) Give suitable examples of both the functions indicating the number and nature of argument they can take.   3

4. a) State the advantages of DHTML over HTML.   1

    b) Design a HTML form containing two text boxes. First text box is for name and second is for age. Write a Java script code to validate the age of an user. Also check that the length of the name given is less than 10 characters.   4

5. a) In VB, what are object Data Type and variant Data Type ?   2

    b) Using VB, write necessary statements to print the text certain number of times. The text is entered in textbox.

            3

6. a) What is the main difference between servlet and applet ?   1

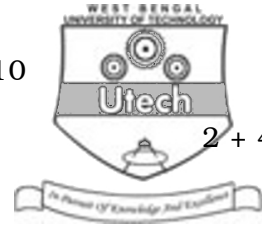   b) Write a Servlet Program that returns the current date and time.   4

GROUP – C

(Long Answer Type Questions)

Answer any *three* questions.   3 × 15 = 45

7. a) What is event driven programming ? Explain with reference to Visual Basic (VB).   4

   b) Differentiate between the Dynaset and Snapshot type Recordset.   3

   c) What is the function of a Timer control ?   3

   d) Using VB, write necessary statements to print the text certain number of times. The text is entered in a textbook.   5

8. a) What do you mean by event procedure and function procedure ?   3

   b) Explain the Active X control in VB.   2

   c) What do you mean by 'array of controls' in VB ?   3

   d) Write a program in VB to check whether a given number is prime or not.   5

   e) What is MDI Form ?   2

9. a) What is RMI ? How does RMI works ? 2 + 4

   b) What is JNI ? What are the advantages and disadvantages of JNI ? 2 + 2

   c) What is the need of JDBC ? Explain JDBC architecture with suitable block diagram. 1 + 4

10. a) What are the techniques for session tracking in servlet ?

   3

   b) Write a Java Script code which will accept a mathematical expression and display the result using 'on click' event. 5

   c) Write the statements by which cookies can be generated ? 3

   d) "A servlet can be looked upon as a direct replacement for CGI". Comment on this statement. 4

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

  a) Client side scripting

  b) *X*-Window System.

  c) Entity Bean.

  d) Cognative aspect of User Interface in Visual Programming.

  e) Session Bean.

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