CS/B.Tech (CSE)/SEM-7/CS-703/2011-12

2011

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) The output of a dynamic web page is

      a) HTTP   b) HTML

      c) Applet   d) Active X control.

   ii) VB is a .... Language.

      a) Platform dependent   b) Object oriented

      c) Platform independent d) Partially dependent.

   iii) Applet is based on the concept of

      a) Server pull   b) Client pull

      c) Client push   d) Server push.

   iv) Which of the following technologies is not part of the J2EE ?

      a) CORBA   b) EJB

      c) JSP   d) SERVLET.

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v) CGI is a

    a) Client side programming

    b) Server side programming

    c) Both side programming

    d) None of these.

vi) Applet is used in .... web page.

    a) dynamic

    b) active

    c) both dynamic and static

    d) static.

vii) Which of the following controls in VB provides a set of choices to user ?

    a) Label   b) Combo box

    c) Timer   d) Frame.

viii) HTTP is a

    a) State full protocol

    b) State less protocol

    c) State is not important in HTTP protocol

    d) None of these.

ix) If an event occurs from a resource used in an application, then the message is

    a) WM_DESTROY

    b) WM_CREATE

    c) WM_COMMAND

    d) WM_PAINT.

x) To transfer the control between the JSP the tag used is

    a) Expression tag   b) Scriptlet tag

    c) Action tag   d) Page tag.

GROUP – B

(Short Answer Type Questions)

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

2. What is the difference between Enable property and Visual property of a menu control ? Explain significance of "preserve" keywords.   2 + 3

3. What is web page ? Write down the types of web page ? Explain the term web technology ?   1 + 2 + 2

4. What is the difference between Class selector and ID selector in CSS ? Explain the Inline style of CSS with an example.   2 + 3

5. What is MDI ? What are its features and advantages ?   2 + 3

6. Design a HTML page on your friends. List your friends. Each friend's name is a link. Prepare separate HTML documents on each friend and call them in the appropriate link.   5

GROUP – C

(Long Answer Type Questions)

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

7. a) What is Servlet ? Describe briefly Servlet life-cycle. What are functions & advantages of Servlet ?   1 + 5 + 3

   b) Specify the main objectives of J2EE.   2

   c) Write short note on Cookies, CGI.   2 + 2

8. a) Briefly explain JSP architecture with neat sketch.

   b) Briefly describe JSP life-cycle & how it works ?

   c) What is the difference between EJB container & Web container ?

   d) What do you mean by Elements and template data in a JSP page ?   5 + 5 + 2 + 3

9. a) What are the advantages of JSP ? What is the difference between 'prepared statement' & 'callable statement' ?

b) Compare & contrast JSP vs ASP.

c) State the main parts of J2EE runtime environment.

d) Classify & explain different types of Cascading style sheets. 3 + 3 + 3 + 3 + 3

10. a) What do you mean by event driven programming ? Why event driven programming is required in window based application ? 2 + 2

b) What is Dynamic Array ? Why is it created in VB ? 3

c) In VB, what is Object Data Type & Variant Data Type ? 2 + 2

d) Write a program in VB to display the current date & time. 3

e) Specify the cardinality of relationship between child form & parent form in MDI applications. 1

11. a) What are the differences between VB functions & procedure ? How can we call a procedure from another procedure ? 3 + 2

b) How many data types are present in VB ? What is the use of Currency Data Type ? 3 + 2

c) How can we declare variables in VB ? What is the job of 'option explicit' in VB ? 1 + 1

d) How many kinds of array are present in VB ? What are the use of 'redim' & 'preserve' keyword ? 1 + 2