Name : ....

Roll No. : ....

Invigilator's Signature : ....

CS/B.Tech(CSE)/SEM-7/CS-703/2009-10
2009
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 of the following :

                                                    10 × 1 = 10

i)   RMI technology helps to access remote methods on

a)   Same platform   b)   Network platform

c)   Different platform   d)   Strut platform.

ii)   Which statement is false ?

a)   A servlet runs at the back of JSP

b)   Stateless beans occupy more space than stateful
session bean

c)   ODBC takes the help of DSN to get boned with the
database

d)   "Thin" belongs to the type-IV JDBC driver.

iii)   To transfer the control between JSP pages the tag used
is

a)   Scriptlet tag   b)   Action tag

c)   Page tag   d)   Expression tag.

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iv) What is the use of 'Preserve' keyword in VB ?

    a) To store the data in hard disk

    b) To preserve the content of an array when it is resized

    c) To store the data in RAM

    d) To store the data in floppy disk.

v) Cookie is created & sent by

    a) web browser   b) web server

    c) application server   d) database server.

vi) Driver Manager class is the member of which of the following packages ?

    a) java.util   b) javax.servlet

    c) java.io   d) java.sql.

vii) Applet is based on the concept of

    a) server push   b) server pull

    c) client push   d) client pull.

viii) http is a .... protocol.

    a) stateless

    b) stateful

    c) both stateless and stateful

    d) none of thse.

ix) .... are compiled into ....

    a) Servlet, JSP   b) ASP, JSP

    c) JSP, ASP   d) JSP, SERVLET.

x) The JSP tags are interpreted by

    a) JSP compiler   b) JSP degugger

    c) JSP engine   d) none of these.

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GROUP – B

(Short Answer Type Questions)

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

2. Why is HTTP stateless ? How is statelessness of HTTP overcome to run E-commerce applications on Web ?   2 + 3

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

   b) In window based programming what do you mean by controls, properties of control, events and methods ?

   2 + 3

4. a) What is the difference between class selector and id selector in CSS ?

   b) Give coding example for inline style of CSS.   3 + 2

5. Illustrate basic tags of a HTML page with an example.

6. Explain Servlet life cycle in brief and also describe functionalities involved in the methods invoked.

GROUP – C

(Long Answer Type Questions)

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

7. a) State the main objectives of J2EE. Describe briefly about J2EE architecture.

   b) Write a simple servlet program which will return the current date and time.

   c) What is Web container ? What is servlet engine ?

   5 + 4 + 3 + 3

8. a) What do mean by event driven programming ? Discuss why event driven programming philosophy is required in Window based application.

   b) In window based programming what do you mean by controls, properties of control, events and methods ?

   c) What is multiple document interface (MDI) ? What are its advantages ?   (2 + 3) + 7+ (1 + 2)

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9. a) Write code using Java script to create a registration form which contains text fields like name, age and address and a submit button. After clicking the button an alert message will come for each field if it is left blank during submission of the form.

    b) Write the difference between ASP and JSP programs.

    c) Explain what happens in the background when a JSP page is accessed by a user from a server that supports JSP.   8 + 3 + 4

10. a) What is meant by Active X Control ?

    b) How many types of Active X Controls are there ?

    c) Differentiate between Active X DLL and Active X Exe ?

    d) Explain the following functions with relevant examples :
        Mid$ ( ), Right $ ( ), Inst R ( ), Len ( ), Trim $ ( ), Hex $ ( ), String $ ( ).

    e) How is a single dimensional array declared in VB ?

    f) How can we create dynamic arrays ? Explain with relevant examples.   1 + 2 + 2 + 7 + 1 + 2

11. a) What is OLE ?

    b) What is the difference between Active X EXE and Active X DLL ?

    c) Write a program in VB for adding two 2-D arrays.

    d) Explain X-Windows sysetms.

    e) What is the use of Option Explicit keyword in VB ?

                                        2 + 2 + 5 + 4 + 2

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

    a) Document Object Model.

    b) ODBC AND JDBC

    c) JINI

    d) EJB.

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