



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.



- 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 these.
- 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 debugger
  - c) JSP engine
  - d) none of these.



**GROUP – B**

**( Short Answer Type Questions )**

Answer any *three* of the following.  $3 \times 5 = 15$

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.  $3 \times 15 = 45$

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 ?  
 $( 2 + 3 ) + 7 + ( 1 + 2 )$



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 :  $3 \times 5$
- a) Document Object Model.
- b) ODBC AND JDBC
- c) JINI
- d) EJB.