

Name : .....

Roll No. : .....

Invigilator's Signature : .....

**CS / B. TECH (CSE) / SEM-7 / CS-703 / 2010-11**

**2010-11**

**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 :  $10 \times 1 = 10$

i) Full form of XML is

a) Xtensible Makeup Language

b) Extensible Markup Language

c) Extended Makeup Language

d) None of these.

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[ Turn over ]

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- ii) HTTP is a
- a) Stateless Protocol
  - b) State full Protocol
  - c) State is not important for HTTP Protocol
  - d) None of these.
- iii) Which one of the following is not in DHTML ?
- a) HTML
  - b) AJAX
  - c) CSS
  - d) JavaScript.
- iv) Which one of the following is true ?
- a) HTML works at server side
  - b) Apache is an application server
  - c) Tomcat is an Web Container
  - d) CSS is used to validate data.
- v) When using a form-based authentication, which action must be used in the login form ?
- a) j\_security\_check
  - b) j\_get\_user
  - c) j\_login\_check
  - d) j\_get\_security.

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- ix) What is a benefit of bean pooling in an EJB container ?
- a) It improves the portability between databases
  - b) It reduces the number of database connections
  - c) It provides between support to object-oriented databases
  - d) It reduces the memory allocation and garbage-collection cycles.
- x) Which items provides tools to allow the formatting of currency and data information according to local conventions ?
- a) java.text package
  - b) java.util.Locale class
  - c) java.lang.String class
  - d) Pluggable look and feel in Swing.

**GROUP - B**

**( Short Answer Type Questions )**

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

2. a) What do you mean by event driven programming ?
- b) What is OLE in VB ? What are the differences between variables and variants in VB ?  $2 + (1 + 2)$

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3. a) Differentiate between MsgBox statement and MsgBox ( ) function.
- b) Explain the dynamic array creation in VB. What is the significance of 'Preserve' keyword ?  $2 + (2 + 1)$
4. a) What do you mean by URL ? Describe its different parts.
- b) How does a web browser communicate with the web server ?  $(1 + 2) + 2$
5. a) What do you mean by World Wide Web ?
- b) Describe the different kinds of request-response methods used by the HTTP protocol.  $2 + 3$
6. What is RMI ? Briefly describe RMI architecture.  $5$

**GROUP - C**

**( Long Answer Type Questions )**

Answer any *three* of the following.  $3 \times 15 = 45$

7. a) What are the uses of 'option explicit' and 'option implicit' keywords in VB ?
- b) What do you understand by control array in VB ? How to create one ?
- c) Explain the difference between even procedure and function procedure. Give examples in VB.

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- d) Write a VB program to find the GCD of given two numbers using function procedure.  $3 + 3 + 4 + 5$
8. a) What is 2-tier web architecture ? How is it different from 3-tier architecture ?
- b) What is the difference between static and dynamic web pages ?
- c) Design a HTML page with the following features - Hyperlink, navigation buttons, tables, forms.
- d) Describe the user-defined data types in VB with suitable example.
9. a) How many types of Arrays are available in VB ? What is a dynamic array ? Explain the keyword Preserve and Redim. Explain the use of *option explicit*.
- b) What is the difference between enabled and disabled property of a control ? Describe procedure in detail (Sub procedure, Function procedure and Property procedure).
- c) Write a VB program to accept a value from textbox and check whether number is prime or no-prime.

$5 + 2 + 4 + 4$

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10. a) What is the advantage and disadvantage of visual programming ?
- b) Discuss the various data types used in visual basic with example.
- c) Explain MsgBox and Inputbox with example.
- d) Explain in brief with example for the following procedure used in VB 6.0 :  $4 + 4 + 3 + 4$
- (i) MDI (ii) OLE
11. a) What is JSP ?
- b) What is the difference between JSP and ASP ?
- c) Explain the Life cycle of JSP.
- d) What is a Servlet ? Explain the life cycle of a Servlet ?

$2 + 4 + 4 + 5$

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