# CS/B.Tech (IT)/(Supple)/SEM-7/IT-702/09
# WEB TECHNOLOGY ( SEMESTER - 7 )



1. .....
*Signature of Invigilator*

2. .....
*Signature of the Officer-in-Charge*

***Reg. No.*** | | | | | | | | | | | | | | | |

***Roll No. of the Candidate*** | | | | | | | | | | | | | | | |

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**CS/B.Tech (IT)/(Supple)/SEM-7/IT-702/09**

**ENGINEERING & MANAGEMENT EXAMINATIONS, AUGUST – 2009**

## WEB TECHNOLOGY ( SEMESTER - 7 )

Time : 3 Hours ] [ Full Marks : 70

***INSTRUCTIONS TO THE CANDIDATES :***

1. This Booklet is a Question-cum-Answer Booklet. The Booklet consists of **32 pages**. The questions of this concerned subject commence from Page No. 3.
2. a) In **Group – A**, Questions are of Multiple Choice type. You have to write the correct choice in the box provided **against each question**.
   b) For **Groups – B** & **C** you have to answer the questions in the space provided marked 'Answer Sheet'. Questions of **Group – B** are Short answer type. Questions of **Group – C** are Long answer type. Write on both sides of the paper.
3. **Fill in your Roll No. in the box** provided as in your Admit Card before answering the questions.
4. Read the instructions given inside carefully before answering.
5. You should not forget to write the corresponding question numbers while answering.
6. Do not write your name or put any special mark in the booklet that may disclose your identity, which will render you liable to disqualification. Any candidate found copying will be subject to Disciplinary Action under the relevant rules.
7. **Use of Mobile Phone and Programmable Calculator is totally prohibited in the examination hall.**
8. You should return the booklet to the invigilator at the end of the examination and should not take any page of this booklet with you outside the examination hall, **which will lead to disqualification**.
9. Rough work, if necessary is to be done in this booklet only and cross it through.

**No additional sheets are to be used and no loose paper will be provided**

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Marks Obtained

| | Group – A | | | | | | | | | | Group – B | | | Group – C | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ***Question Number*** | | | | | | | | | | | | | | | | | ***Total Marks*** | ***Examiner's Signature*** |
| ***Marks Obtained*** | | | | | | | | | | | | | | | | | | |

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**Head-Examiner/Co-Ordinator/Scrutineer**

**S–53051 ( 01/08 )**

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# CS/B.Tech (IT)/(Supple)/SEM-7/IT-702/09

# WEB TECHNOLOGY

## SEMESTER - 7

Time : 3 Hours ] [ Full Marks : 70

### GROUP – A

### ( Multiple Choice Type Questions )

1. Choose the correct alternatives for the following : $10 \times 1 = 10$

i) The middle tier in a 3-tier application is known as

a) presentation tier b) business tier

c) database tier d) transaction tier. ☐

ii) ……. are compiled into …… .

a) Servlets, JSP b) ASP JSP

c) JSP, ASP d) JSP, Servlets. ☐

iii) Applets executs on the

a) web server b) web browser

c) application server d) web browser or web server. ☐

iv) Cookie is created and sent by

a) web browser b) web server

c) application server d) database server. ☐



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v) Which of the following in JSP has XML like syntax ?

a) Directives b) Scripting elements

c) Action elements d) None of these. ☐

vi) JSP life cycle does not consist of which of the followng methods ?

a) jspinit b) jspdestroy

c) jspstart d) jspservice. ☐

vii) The <INPUT> is

a) format tag b) empty tag

c) both (a) and (b) d) none of these. ☐

viii) How can you make an *e*-mail link ?

a) <mail href+xxx@y.com> b) <mail>xxx@y.com</mail>

c) <a href=mailto:xxx@y.com> d) <a href=xxx@y.com> ☐

ix) Are the tags elements in XML case sensitive ?

a) No, they are case insensitive b) Yes, they are case sensitive

c) They are browser dependent d) None of these. ☐

x) Which one of the following statements is valid mechanisms of EJB creation in a JSP that is a client of an EJB ?

a) EJB creation code is a JSP declaration & JSP scriplet

b) EJB creation through use of the JSP:include action

c) EJB creation through use of the JSP:usebean action

d) none of these. ☐



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## GROUP – B

### ( Short Answer Type Questions )

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

2. a) What are the advantages of 3-tier applications over 2-tier application ? 2

   b) What are the advantages & limitations of static web pages ? 3

3. a) If we want to divide the browser window into 3 frames in the following way — rowwise: 20%, 80%; that 80% colwise: 30%, 70%. How will be the frameset tag is defined ? 2

   b) Compare GET and POST methods. 3

4. a) When should active web pages be used and when not ? 2

   b) What are the advantages & issues involved in dynamic web pages ? 3

5. a) Differentiate between a servlet and a CGI. 2

   b) How is EJB different from java beans ? 3

6. a) What are the advantages of client-side scripting ? 2

   b) What are style sheets ? How are they useful ? 3

## GROUP – C

### ( Long Answer Type Questions )

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

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

   b) Design a HTML form to see the result for a candidate when the results are published on the web. Accept year, semester and rollno. 5

   c) Write a HTML document/page with java script to find factorial of a number. 5



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8. a) What is servlet ? Describe the life cycle of a servlet. 5

b) Discuss with the help of an example, how servlets work. 5

c) Briefly explain JSP architecture with the help of an example. 5

9. a) What is a java bean ? 2

b) What are the types of an EJB ? 3

c) Explain the different containers available in the J2EE architecture. 5

d) Briefly explain the life cycle of an applet with the help of a diagram. 5

10. a) What role do forms play in making web pages dynamic ? 2

b) Discuss with the help of an example, how applets work. 5

c) What is XML ? Why is XML superior to other forms of data exchange ? 3

d) Describe the anatomy of an XML document. 2

e) What are the different types of DTDs ( Document Type Definitions ) with examples ? 3

11. Write short notes on the any *three* of the following : 3 ∞ 5

a) RMI

b) DHTML

c) JDBC-ODBC

d) Cookies

e) JNI.

END



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