

**PDFZilla – Unregistered**

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Total No. of printed pages = 4

**CS 131703**

Roll No. of candidate

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**2017**

**B.Tech. 7th Semester End-Term Examination**

**Computer Science Engineering**

**WEB TECHNOLOGY**

Full Marks – 100

Time – Three hours

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The figures in the margin indicate full marks  
for the questions.

Answer Question No. 1 and any *six* from the rest.

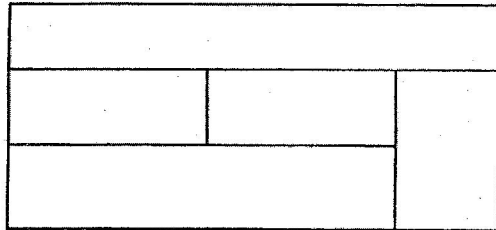
1. Answer the following questions : (10 × 1 = 10)
- (a) Mention any four elements of HTML.
  - (b) What are the characteristics of web applications?
  - (c) What is cookie?
  - (d) What is the difference between HTML and DHTML?
  - (e) Mention the ways of inserting CSS in HTML.
  - (f) What is DNS?
  - (g) What is information architecture?
  - (h) Mention two advantages of using XML?
  - (i) Write four rules for writing a well-formed XML document?
  - (j) What is DTD?

[Turn over

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2. Answer the following questions :

- (a) Write notes on TCP/IP. (5)
- (b) What is the role of information architect? (5)
- (c) Write the HTML code for the following : (5)



3. Answer the following questions :

- (a) Write about DTD validation? (5)
- (b) Write about any two electronic payment schemes. (5)
- (c) Write Javascript to validate the email entered by a user. (5)

4. Answer the following questions :

- (a) Explain how a search engine works. (5)
- (b) Write about the challenges in organizing information. (5)
- (c) Write the HTML code for a page containing three frames. One of the frames may contain 2 links and on clicking first link, a different page is loaded on the second frame and on clicking the second link, a different page is loaded on the third frame. (5)

5. Answer the following questions :

- (a) Write about SGML and XSL. (5)
- (b) What are the various types of online advertising technologies? (5)
- (c) Following is an XML document : (5)

```
<EXAM>
  <STUDENT>
    <ID> 1010</ID >
    <NAME>John Smith</NAME>
    <MARKS>97</MARKS>
```

</STUDENT>

.....

.....

</EXAM>

Write an XSL document to display the data in a browser in a tabular format.

6. Answer the following questions :

- (a) Explain the architecture of web browser with suitable diagram. (5)
- (b) Write PHP code to perform the following : (10)
  - (i) Create login page and set username and password. (login.php)
  - (ii) Check the login page (signin.php)

7. Answer the following questions :
- (a) What are the ways of using XML? Explain. (5)
  - (b) What are the phases of web site development? Explain in details. (10)
8. Answer the following questions :
- (a) Write about the different search strategies. (5)
  - (b) Explain about the different e-commerce business models. (10)
9. Answer the following questions :
- (a) Create an image gallery using HTML and style it using CSS. (5)
  - (b) Write notes on the terms below : (5 × 2 = 10)
    - (i) Digital signature.
    - (ii) Meta searchers.
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