

B.F. Seventh Semester (Computer Science & Engineering) (CGS)
10346 : Elective - I : Web Engineering : 7 KS 05

P. Pages : 2

Time : Three Hours



AU - 2896

Max. Marks : 80

- Notes :
1. Assume suitable data wherever necessary.
 2. Question carries marks indicated.
 3. Use of pen Blue/Black ink/refill only for writing the answer book.

SECTION - A

- | | | | |
|----|----|---|---|
| 1. | a) | Explain web architecture with diagram. | 7 |
| | b) | Explain various layers present in TCP/IP model. | 7 |

OR

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|----|----|--|---|
| 2. | a) | Explain cyber laws in detail. | 7 |
| | b) | Explain persistent & Non-persistent HTTP connection. | 7 |
| 3. | a) | Explain the following:
i) Class selector
ii) ID selector | 8 |
| | b) | How do we carry out the planning for web page? Explain. | 5 |

OR

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|----|----|---|---|
| 4. | a) | Explain following HTML tags with example.
i) Table Tag
ii) List tag | 8 |
| | b) | Explain CSS with its core syntax & advantages. | 5 |
| 5. | a) | Explain NAMESPACE with example. | 7 |
| | b) | Differentiate between HTML & XML. | 6 |

OR

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|----|----|--|---|
| 6. | a) | Differentiate between internal & external DTD. | 4 |
| | b) | Explain the anatomy of element in XML with structure. | 5 |
| | c) | Describe the rules that must be obeyed while selecting an element name. Give suitable example. | 4 |

SECTION – B

7. What do you mean by XML document what is its purpose consider following DTD's & convert them into corresponding XML document. **14**
- 1) Customer.dtd
<!ELEMENT customer (customer)*>
<!ELEMENT customer (name, email, city, phone) >
<!ELEMENT name (#PCDATA)>
<!ELEMENT email (#PCDATA)>
<!ELEMENT city (#PCDATA)>
<!ELEMENT Phone (#PCDATA)>
- 2) College.dtd
<!ELEMENT college (college)*>
<!ELEMENT college (college name, dept, HOD, email, contact)>
<!ELEMENT collegename (#PCDATA)>
<!ELEMENT Dept (#PCDATA)>
<!ELEMENT HOD (#PCDATA)>
<!ELEMENT Email (#PCDATA)>
<!ELEMENT Contact (#PCDATA)>
- OR**
8. What are the limitation of DTD? How these limitations can be overcome? Construct an appropriate XML schema for the following XML document. **14**
- <?XML Version = "1.0"?>
<Employee>
<First name age = "32">
Vishal </first name>
<last name pan = "12345">
Patil </last name>
</Employee>
9. a) Explain arrays in JavaScript with example. **7**
b) Explain JavaScript program with syntax in detail. **6**
- OR**
10. a) Explain following related to JavaScript. **8**
i) Conditional statement ii) Inner/Nested function
b) Assume the array a is a = [1, 3, 0, 4, 5] construct an HTML page with appropriate Java-Script code to display the array is a = [5, 4, 0, 3, 1] **5**
11. a) What are the building blocks of CGI. **4**
b) Explain purpose of CGI technology. **4**
c) What are environment variables? Explain any two CGI environment variables. **5**
- OR**
12. a) Explain CGI security policy in detail. **7**
b) Explain CGI along with its characteristics. **6**
