

First Semester, 14371438

Time: 1:00 – 4:00 PM

(Answer all 10 questions)

Final Exam

Question 1. What is a web server? Give 2 examples and explain their advantages and disadvantages? (10 points)

Question 2. What is a Virtual Host? And what are the advantages of using it ?Explain its methods in details? (10 points)

Question 3. Write an HTML file to create a webpage that has the following features(10points):

- Title of the webpage "CSC457 Internet Technology"
- Background color is yellow, center alignment, font color is red ,and font size is 24pt using **class attribute and CSS external file**.
- Write "This is a red centered paragraph" in the webpage.

Question 4. Write an HTML code using Java script to popup an alert has a "Hello World" message when clicking on a button? (10 points)

Question 5. Write a java script to detect and display the following properties of a browser: Browser type, if cookie is enabled, and the language being used. (10 points)

Question 6. List and explain the advantages and disadvantages of the three possibilities of making a web site dynamic? (10 points)

Question 7. What is a Namespaces in XML ? How it could be used? (10 points)

Question 8. What is a Web Service ? What is the SOAP ? Explain the SOAP elements briefly ? (10 points)

Question 9. Write a .NET webservice to add 2 numbers and return the result. Show the webservice extension file name and the attributes being used. The domain name to host the websirvice is : **www.abcd.com** and the directory is **mywebservice**.
(10points)

Question 10. List the steps needed to access the database from an ASP Page? (10 points)



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Q1:-

web server is the computer that actually runs websites.

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IIS :-

advantages :-

1. has graphical user interface.
2. good tech support.
3. works well with other Microsoft applications.

disadvantages :-

1. only works with Microsoft operating systems.
2. source code is proprietary.
3. does not have much flexibility, due to Microsoft constraints.

Apache :-

advantages :-

1. free software.
2. open source.
3. multi-platform.
4. allows remote administration.

disadvantages :-

1. console mode installation.
2. not regularly updated.
3. no real tech support.
4. requires more technical knowledge to install and configure.



Q2:

virtual host is a method that allows multiple websites to share and run on the same server.

advantages:-

1. cost-effectiveness: you don't have to invest in a dedicated server if you don't need to.
2. it is a good solution for small or medium-sized websites.

methods:-

1. Name-based: uses multiple domain names. Here

2. IP-based: each website points to a unique IP address.

Q7:

namespaces has the structure of an URL, it is used to provide a unique name for a document.

examples:-

- Animal: name

- Book: title

- Book: name



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Q4:

```
<html>
<head>
<script language="javascript">
    <!--
        function popup() {
            alert("Hello World")
        }
    -->
</script>
</head>
<body>
    <input type="button" onClick="popup()" value="CLICK" />
</body>
</html>
```

Q8:

A web service is a platform independent, that works with distributed computers, and can communicate through firewalls without causing any security issues.

SOAP is simple object access protocol, a protocol to access web services based on XML. Communication through SOAP with HTTP.

SOAP elements:-

1. SOAP envelope element: the root of SOAP message, defines the XML as a SOAP document.
2. SOAP header element: contains header information and application-specific information, (optional).
3. SOAP body element: the actual message.
4. SOAP fault element: holds error, and status information.



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Q5:

(12)

```
<html>
<body>
<script type="text/javascript">

    var browser=navigator.appName;
    var b_version=navigator.appVersion;
    var b_cookies=navigator.cookiesEnabled;
    var b_language=navigator.systemLanguage;

    document.write("browser: " + browser);
    document.write("<br>");
    document.write("cookie enabled: " + b_cookies);
    document.write("<br>");
    document.write("language: " + b_language);

</script>
</body>
</html>
```



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Q6 :

client-side processing :-

advantages :-

1. validates user input.
2. less information travel.
3. saves time and bandwidth.

disadvantages :-

and performance

1. ~~the result may not be as needed, due to specs differences among clients.~~

server-side processing :-

advantages :-

1. application logic resides in one place i.e. server.
2. ~~it ensures better security.~~

disadvantages :-

1. slow processing when encountered with many requests.

a mix of client-side and server-side processing :-

which is the best practice; integrating the best aspects of each of them together, as much as possible. For example,



Q10:

- browser requests to read an ASP file.
- server passes the request to ASP engine.
- ASP engine reads the ASP file, line by line, executing the script within it.
- ASP file is returned to the browser as an HTML.



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① Web servers are computers that actually run websites.

IIS :-

advantages :

- + graphical user Interface (GUI)
- + works well with other Microsoft applications.
- + good tech support.

disadvantages :

- not flexible

- proprietary source code

- only works on windows

- Apache :-

advantages :

+ open source

+ allows remote admin

+ free

disadvantages :

- console user interface

- no real tech support

- not regularly updated

② Virtual Hosting is hosting multiple domain names on the same computer.

the most important advantage is that

it's cost-effective, you don't have to pay for a dedicated server

It's good for small to medium sized websites.

2 Methods :

point



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(3)

myStyle.css:

```
body { background-color: yellow; }  
redCenter { text-align: center; color: red; }  
font-size: 24pt; }
```

Index.html:

```
<html>  
  <head>  
    <title> CSC 457 Internet Technology </title>  
    <link rel="stylesheet" type="text/css" href="myStyle.css"/>  
  </head>  
  <body>  
    <p class="redCenter">  
      This is a red centered text  
    </p>  
  </body>  
</html>
```

(4)

index.html

```
<head>  
  <script type="text/javascript">  
    function popUp() { document.alert("Hello World!"); }  
  </script>  
</head>  
  
<body>  
  <input type="button" value="Click Me!" onclick="popUp();"/>  
</body>
```



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(5)

<html>

<head>

<script type="text/javascript">

var x = Navigator.appName;

var y = Navigator.cookieEnabled;

var z = Navigator.language;

document.write(x + " " + y + " " + z);

</script>

</head>

</html>

(6)

1- Server side processing

Advantages:

+ Application logic resides in one place.

+ ensures better security

Disadvantages: more load on the server

2- Client side processing

Advantages: + customize interaction with user.

+ validate user input

+ Reduce load on server

disadvantages:

- less secure

3- Mix of both -1 and -2

Advantages: + the best of both ways, use

client side processing for

formatting and validating and

server side processing for

secure information.

disadvantages:

- Application logic doesn't reside in one place



⑦ Namespaces provide unique names for documents, they usually take the form of a URL.

It's used by using a prefix to an element.

Example: (Animal: name, Person: name)

⑧ A web service is a service that is platform independent, it works between systems that are distributed and can communicate through firewalls without raising security issues.

SOAP: Simple Object Access Protocol, It provides a mechanism that allows you to access objects through the NET.

SOAP = XML + HTTP

SOAP Elements

(Required) 1- envelope: identifies the XML document as a SOAP message (Required)

(optional) 2- header: contains header information (optional)

(Required) 3- body: contains call and response information (Required)

(optional) 4- fault: contains information about errors that occurred while processing the message



name extension file type

Sum.asmx :

⑨ *abc.com/abc.asmx/Sum.asmx*

<? WebService Language = "VBScript" class = "Sum" ?>

imports system

imports system.web.services

Public Class Sum : inherits WebService

<webMethod()> public function Add (myVal num1 as Integer,
myVal num2 as Integer) As Integer

 return (num1 + num2)

end function

end class

// Form to use the above web service:

<Form action = "www.abcd.com/magewebservice/sum.asmx/Add"
method = "post" target = "blank">

<input type = "text" name = "num1" class = "frmInput" />

<input type = "text" name = "num2" class = "frmInput" />

<input type = "submit" value = "Submit!" class = "button" />

</form>



~~This is an alternative method to access a database by using Javascript.~~

~~It's the same method I used in my project.~~

my Script of ASP:

(10) Enter the user and password then

~~establish a connection to the Database.~~

~~Query the Database~~

~~The Database must approve your connection based on the username and password you provided.~~

~~After approval, the Link to the Database is established.~~

~~Now you can Query the Database.~~

~~to Add, update or retrieve data.~~

~~After~~

~~you're done, you must close the link to the database and disconnect the connection.~~

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رقم السؤال	الدرجة
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	مجموع الدرجات

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د. إيهاب الرومن

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Q1-

actual

web server is the computer that actually run the website.
any computer can be server by install the server software
and connect it to internet.

1- IIS

advantages

- 1. work well with other Microsoft
- 2. good tech support
- 3. we GUI interface

disadvantages

- 1. only work with Microsoft
- 2. it's Not terribly flexible
- 3. Not open source

2- Apache

advantages

- 1. open source
- 2. software free
- 3. Multiplatform

disadvantages

- 1. Not tech support
- 2. it's Not regularly update
- 3. Need technical knowledge

Q2:

Virtual Hosting - it's one server that actually Host Many websites at same time and they share same server

advantages

- 1. cost effectiveness - low cost don't need to pay for the ~~whole~~ server by your self
- 2. it's good for small and midm website

Method:-

- 1. Name based deployment



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Q3.

<HTML>

<title>

CSC 457 Internet Technology

</title> <body>

<bgcolor="yellow" fontcolor="red" fontsize="24pt">

<body> <center alignment>

<h1> This is a red center alignment paragraph. </h1>

</body>

</HTML>

With CSS -3

With class attribute

Q4.

<HTML>

<head>

<script type="text/javascript">

<!

function popup() {

alert("Hello world")

{}

>

</script>

</head>

<body>

<input type="button" onclick="popup()" value="Click here" />

</body>

</HTML>



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Q5:-

<HTML>

<Head>

<body>

<script type="text/javascript">

var browser = navigator.appName;

var b_cookie = navigator.cookieEnabled;

var b_language = navigator.systemLanguage;

document.write("Browser type " + browser + browser);

</script>

document.write("cookie is " + b_cookie);

document.write("language is " + b_language);

</script>

</body>

</HTML>

Q6

1. server side processes :- responsible of executing the program.

- advantage

1. Application logic reside in one place

2. better for security

- dis advantage

1. effect the speed

2. different browser

2. client side processes :- the processes done at browser.

- advantage

1. validate user input

2. save client time and bandwidth

3. reduce the load on web

- dis advantage

1. effect the speed

3. Mixed client side and server side processes.

- advantage

1. validate user input

- dis advantage

1. effect the speed



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Q7:-

Name space is usually take form of URL, begin with E
lement Name and optional Namespace Table,
and version Number it's also optional
it provide a unique Name for document

Q8:-

web service is platform independent, will work with systems
that are distributed and can communicate with each
other through firewalls without raising the security
issue.

Access

SOAP is simple object Access protocol is to Access the
Web service based on XML

Element:-

XML + HTTP

1 envelope :- have the root of document (required)

2 header :- have header information (optional)

3 body :- have call and respond (required)

3. Faults :- hold error that occur during processing (optional)



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Q9:- Name Spec - a file / class / code
2% @ web service type = "VBScript" Name = add %>
import system
import system.web.service
(web Description = "add two number and return")
First Number = new number
second = new number
3
(web Description = "add the numbers")
sum = first + second
Return sum

File extens = .asp

- Q10:-
1. create ASP file and ASP
 2. open Asp file
 3. create database
 4. open database
 5. connect the Asp file to database
 6. close Asp file
 7. close database