

National University of Computer and Emerging Sciences, Lahore Campus



Course:	Web Programming	Course Code:	CS-406
Program:	BS(Computer Science)	Semester:	Fall 2017
Duration:	60 Minutes	Total Marks:	50
Paper Date:	04-Nov-17	Weight	15%
Section:	ALL	Page(s):	5
Exam:	Mid 2	Roll No:	

Instruction/Notes: **Note: Please use the answer sheet to answer the questions.**

Question1- If a servlet is invoked using the **forward** or **include** method of **RequestDispatcher**, which methods of the servlet's request object can access the request attributes set by the container? (Choose all that apply)

- A- get_cookies()
- B- getAttribute()
- C- getRequestPath()
- D- getRequestAttribute()
- E- getRequestDispatcher()

Marks 2

Question2- Which type of objects can store attributes? (Choose all that apply)

- A- ServletConfig
- B- ServletResponse
- C- RequestDispatcher
- D- HttpServletRequest
- E- HttpSessionContext

Marks 2

Question 3- Which statements about HttpSession objects are true? (Choose all that apply)

- A- A session whose timeout period has been set to -1 will never expire
- B- A session will become invalid as soon as the user closes all browser windows
- C- A session will become invalid after a timeout period defined by the servlet container.

Marks 2

Question 4- Given that req is an HttpServletRequest, which snippets create a session if one does not exist?

- A- req.getSession()
- B-req.getSession(true);
- C-req.getSession(false);
- D-req.createSession();
- E-req.getNewSession();
- F- req.createSession(true);
- G- req.createSession(false);

Marks 2

Question 5- Which are valid JSP implicit variables? (Choose all that apply)

- A-stream
- B-context
- C-exception
- D-listener
- E-application

Marks 2

Question 6-Which show valid usage of EL implicit variables? (Choose all that apply)

- A-`${cookies.foo}`
- B-`${iParam.foo}`
- C-`${pageContext.foo}`
- D-`${requestScope.foo}`
- E-`${header["User-Agent"]}`
- F-`${requestDispatcher.foo}`
- G-`${pageContext.request.requestURI}`

Question 7-

```
public class MyBean{
    private java.util.Map params;
    private java.util.List objects;
    private String name;
    public java.util.Map getParams() {return params;}
    public String getName(){ return name;}
    public java.util.List getObjects() {reutrn objects;}
}
```

Given the code above, which will cause errors (assume that an attribute mybean can be found, and is of type MyBean)? (Choose all that apply)

A-`${mybean.name}`

B-`${mybean["name"]}`

C-`${mybean.objects.a}`

D-`${mybean["objects"].a}`

Marks 2

Question 8- Which are required fields in the login form when using Form Based Authentication? (Choose all that apply)

A-pw

B-id

C-j_pw

D-j_password

E-password

Marks 2

Question 9 Which security mechanism always operates independantly of the transport layer? (Choose all that apply)

- A-authorization
- B-data integrity
- C-authentication
- D- confidentiality

Marks 2

Question 10- Given a deployment descriptor with three valid <security-constraint> elements, all constraining web resource Am whose respective <auth-constraint> sub elements are:

<auth-constraint>

 <role-name>Omar</role-name>

</auth-constraint>

<auth-constraint/>

<auth-constraint>

 <role-name>Ali</role-name>

</auth-constraint>

Who can access resource A?

- A-no one
- B-anyone
- C-only Omar
- D-only Ali
- E-only Omar and Ali
- F-anyone but Omar and Ali

Marks 2

Question 11- Briefly describe three ways you can parse and XML document.

Marks 10

Question 12- What are cookies what are they used for. Please give example of a custom cookie.

Marks 10

Question 13- In a JSP page, you can write Java code within a script. What options do you have to replace the java script code? Briefly explain how those methods work.

Marks 10