Java MVC Part2 (not including JPA)

Part Multiple-Choices (A)
1. Which of the following is example of JSP tag?
a)include b. extends c. import
d. setSession e. isError
2. How many instances of a filter does the servlet container create ?
a. One instance of a filter for each filter class.
b. Depend on implementation of container
c. One instance of a filter for each filter element defines the deployment descripter
d.One instance of a filter for each filter-mapping element defined in the deployment
descripter.
e. One instance of a filter for each servlet-context.
3. How many instances of a JSP Servlet does the container create?
a. One instance
b. 2 Dependent on Implementation of Container
c. 1-3 instances
d. 4 Dependent on number of request
e. None of these.
4. A Session cookie is when the browser is closed ?
a. unavailable (b.) deleted c. Store to cookie server
d. store to the client computer e. None of the above
5. There are five checkboxes on a form and all of them have the same name, music.
Assume all of them are checked. The code: request.getParameter("music") on the web
server (JSP Page) returns

- a. a string containing all values of the five checkboxes.
- b. string containing the value of the first checkboxes.
- c. null
- d. a string array containing allI values of the fives checkboxes
- e. An exception occurs

Part Multiple-Choices (B)

- 6. Which one is **not** Servlet characteristic?
- a. It runs in server tier
- b. It is pure java language
- c. File extension is .svl
- d. It manage by web container
- e. None of above
- 7. Creating Servlet which method did you have to override?
- a. doGet
- b. doPost
- c. processRequest
- d. a and b
- e. none of above
- 8. How did servlet get request message?
- a. from URL query
- b. from HTTP header
- c. from submitted http form
- d. all of above
- e. none of above

9. Which object that use for writing output on web browser?
a. PrintStream
(b.) PrintWriter (PrintWriter out = response.getWriter())
c. HttpWriter
d. OutWriter
e. None of above
10. Which directory that have to contain web.xml file?
a. META-INF
b. classes
C. WEB-INF
d. lib
e. none of above
11. which directory that use for collected the import library (such as derbyclient.jar or another
external jar file)?
a. Jib
b. tlds
c. classes
d. WEB-INF
e. None of above
12. For the servlet lifecycle which step that servlet invoke method doGet, doPost?
a. Create
b. Initial
c. Servicing Request
d. Unload
e. None of above

```
13.
<servlet>
       <display-name>TestServlet</display-name>
       <servlet-name>TestServlet/servlet-name>
       <servlet-class>int202.exam.servlet.TestServlet</servletclass>
</servlet>
<servlet-mapping>
       <servlet-name>TestServlet/servlet-name>
       <url-pattern>/Test</url-pattern>
</servlet-mapping>
<servlet-mapping>
       <servlet-name>TestServlet</servlet-name>
       <url-pattern>/TestServ</url-pattern>
</servlet-mapping>
KEY การเรียก
<servlet>
       <servlet-name>AddServlet</servlet-name>-----> ชื่อ
       <servlet-class>servlet.AddServlet/servlet-class>-----> Class
</servlet>
<servlet-mapping>
       <servlet-name>AddServlet
       <url-pattern>/AddServlet</url-pattern>-----> เรียก
       <url-pattern>/Add</url-pattern>
</servlet-mapping>
```

from this web deployment descriptor how can we invoke the TestServlet?

a. Invoke via URL [http://localhost:xxxx/application or project name]/Test

```
b. Invoke via form action = "TestServlet"
c. Invoke via forwarding requestDispatcher("/TestServ")
d. a and c
e. none of above
14. If you invoke wrong URL or the URL that did not have file or servlet, what is the status
code of that event?
a. 404
b. 403
c. 200
d. 500
e. None of above
15.
//// Servlet template////
        String name = getServletConfig.getInitParameter("num");
        String num = getServletConfig.getInitParameter(name);
        out.print(num);
Experiment
String name = getServletConfig().getInitParameter("num");----> เรียก Num = "Name"
String num = getServletConfig().getInitParameter(name);----> เรียก Name = "Welcome"
out.println(num);
out.println(name);
***.getServletContext().getRequestDispatcher
<servlet>
        <display-name>TestServlet</display-name>
```

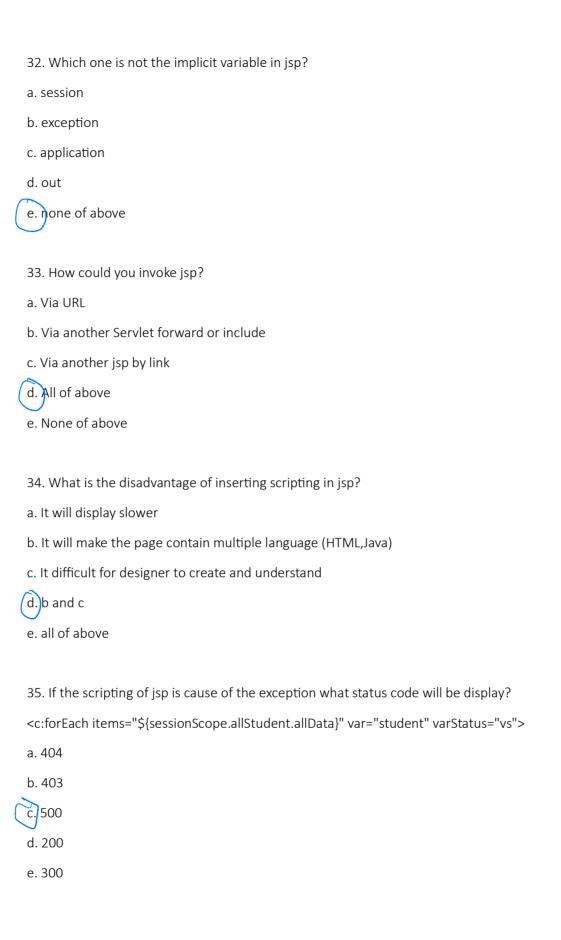
```
<servlet-name>TestServlet/servlet-name>
        <servlet-class>int303.exam.servlet.TestServlet/servlet-class>
        <init-param>
               <param-name>num</param-name>
               <param-value>Name</param-value>
        </init-param>
        <init-param>
               <param-name>name</param-name>
               <param-value>Wellcome</param-value>
        </init-param>
</servlet>
From this code what is the output on web browser?
a. Name
b. Welcome
c. num
d. Page Error
e. null
16. Which method that use to get data for text field in html form?
String text = request.getParameter("name");
a. getInitParameter(String parameterName)
b. getParameterValues(String name)
c.)getParameter(String)
d. getParameterNames()
e. None of above
```

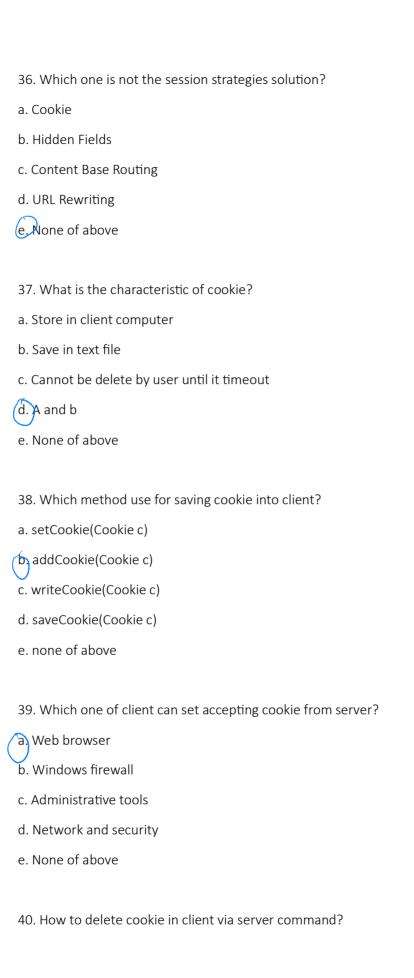
- 17. What is the benefit of MVC concept?
- a. Perform reuse code
- b. Reduce develop time (can develop many parts in parallel)
- c. Increase performance (all parts can develop by the suitable people)
- d. All of above
- e. None of above
- 18. What is the difference between forward and include?
- a. The forwarding is to send all request and response to another page or servlet and the former page or servlet cannot modify response any more, but include can modify response after all.
- b. The forwarding is to send request and response to another page or servlet and the former page or servlet can modify response after the forwarded page finish using the response, but include cannot do it at all.
- c. The forward and include is the same methodology but it use the difference file path. For the forward use absolute path, but include use relative path
- d. Forwarding can forward to servlet and jsp file, but include can use with servlet only
- e. None of above
- 19. Which method that use for sharing variable or object between multiple page or servlet?
- a. addValue(String name, Object value)
- b. setParameter(String name, Object value)
- c.setAttribute(String name, Object value)
- d. addParameter(String name, Object value)
- e. none of above

- 20. What is the characteristic of JSP?
- a. JSP can mix the static and dynamic content
- b. JSP allows the server script
- c. File extension is .jsp
- d. All of above
- e. None of above
- 21. Which one is not the JSP syntax?
- a. peclaration
- b. Scripting <% int x = 5 %>
- c. Directive <%@ taglib prefix="prefixOfTag" uri="uri" %>
- d. Action <c:forEach >
- e. Comment
- 22. What is the JSP benefit?
- a. Separate the presentation module out of servlet (Controller)
- b. Can be reuse by many servlet
- c. Support with the web design tools (Bootstrap)
- d. Compatible with MVC concept
- e. All of above
- 23. Which one is not step of converting JSP into Servlet?
- a. Convert JSP to Servlet code
- b. Compile the Servlet code
- c. Load the Object of that JSP into Web Container
- d. Generate Servlet-Mapping for the generated Servlet code
- e. None of above

	24. What is the parameter that use for precompiling the JSP?
	ajsp_compile
	b. jsp_compile
(c. jsp_precompile
	djsp_precompile
	eprecompile
	25. What is the reserve prefix of jsp parameter?
(ajsp
	b. jsp_
	c. jspd. servlet_
	eservlet
	26. What is the scope of sharing data?
	a. Page
	b. Session
	c. Application
(d. All of above
	e. None of above
	27. What is the jsp directive syntax?
(a. <%@%>
· ·	b. <%%>
	c.
	d. <%jsp:%>
	e. <%=%>

Ź	28. What is the default value of directive "page" attribute "session"?
(8	ລົ Null
1	b. False
(c. True
(d. Create
(e. None of above
í	29. What is the syntax of the declaration scripting?
â	a. <%!%>
ł	b. <%!!%>
(c. <%=%>
	d. <%%>
(e. ?
3	30. What did the scripting expression used for?
â	a. For writing the complex script (if-else, loop) JSTL
(I	b. For declared variable
	c. For comment source code
(d. For display the calculated value
(e. None of above
3	31. Which one did not define in jsp implicit object?
ć	a. HttpResponse
ŀ	b. ServletContext
(c. HttpSession
(d. PageContext
	e PrintStream





Transient and expired cookies will be deleted by the browser according to its own approach.

a. setMaxAge(-1)

b setMaxAge(0)

- c. deleteCookie(String cookieName)
- d. cannot delete cookie via server command
- e. none of above
- 41. How to get HttpSession session object
- a. request.getSession()
- b. response.getSession()
- c. getServletContext.getSession()
- d. getServletConfig.getSession()
- e. none of above
- 42. For the method getSession there is one parameter that boolean type. What is the difference between getSession(true) and getSession(false)
- a. If use getSession(true) its mean is the system already have the HttpSession object it will be retrieve, but if did not exist it will get null value. If use getSession(false) it will create new HttpSession instate
- b. For the method getSession() if the system already have HttpSession object it will retrieve that object, if not have HttpSession object the system will check for the paramer. If true it will create new HttpSession object, if false it will return null value
- c. If use getSession(true) that mean it allows this servlet to use HttpSession. If use getSession(false) it will not allows this servlet to use HttpSession if you use it will throw NullPointerException
- d. If use getSession(true) that mean it allows to sharing HttpSession with another page or servlet. If use getSession(false) it will not allows another page or servlet to use sharing variable in this HttpSession

- e. None of above
- 43. How to clear all value in session?
- a. session.removeAttribute()
- b. session.invalidate()
- c. session.clear()
- d. session.destroy()
- e. session.clearValues()
- 44. What is the ratio of session?
- a. One session: one browser(IE, Chrome, Safari)
- b. One session : one client
- c. One session : one server
- d One session : one browse tab
- e. None of above
- 45. What is the way that can cause session lost?
- a. Client close web browse
- b. Server destroy session object
- c. Session timeout
- d.)All of above
- e. None of above
- 46. What is the difference between forward and sendRedirect?
- a. The forwarding is the way to change page by server invoke the new page, but the sendRedirect is the way that the sever send back to the invoker page and then make the client change page automatically

b. For the forward it will use the relative path, but the sendRedirect use absolute path

The forward manage by RequestDispatcher. The sendRedirect manage by response

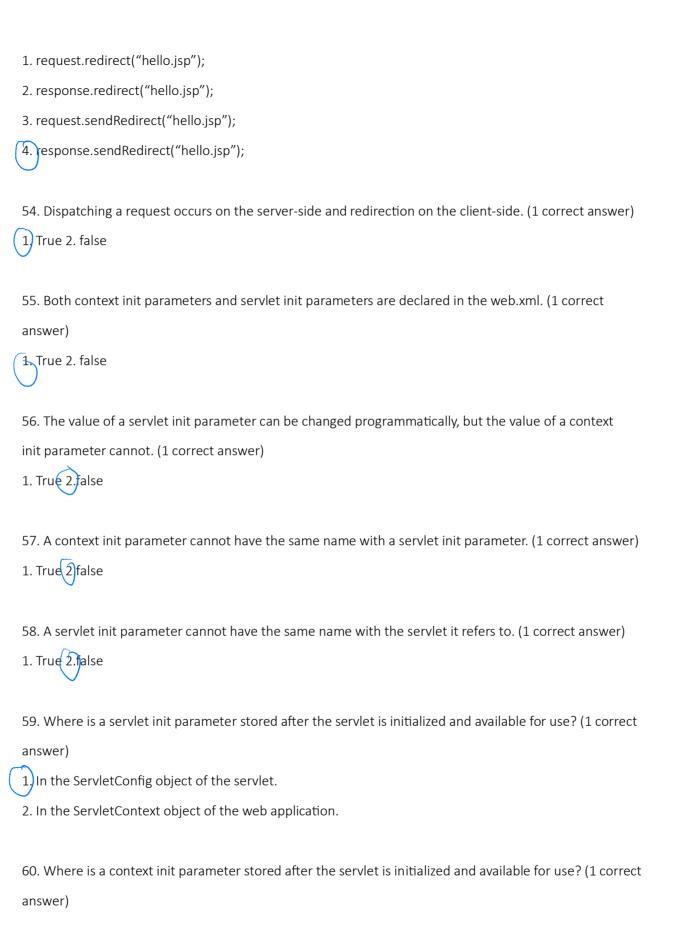
request.getServletContext().getRequestDispatcher("/xxxx").forward(req,res)

- d. All of above
- e. None of above
- 47. How to optimize the session object on server?
- a. Destroy session object if it did use anymore
- b. Remove the no use attribute
- c. Set the suitable timeout of session
- d. All of above
- e. None of above
- 48. How to set session timeout
- a. setSessionTimeout(int second)
- b. setSessionTimeLimit(int second)
- c. setMaxInactiveInterval(int second)
- d. setMaxTimeout(int second)
- e. setLimitTimeout(int second
- 49. What is the characteristic of HttpSession
- a. Provide by HttpServletRequest
- b. Can collect multiple object via name and value (similar to Map)
- c. Can sharing object on multiple page and servlet
- d. Can be destroy by server
- e. All of above

- 50. What will happen if setting the session timeout very fast
- a. Increase server performance because it will clear session very fast
- b. Improve the performance of using server memory because it can contain many session ,therefore it clear the former session very fast
- User cannot create transaction well, because of the transaction data are collected in session and the session is clear too fast
- d. All of above
- e. None of above
- 51. What will happened if setting session timeout very long
- a. Decrease server performance because it cannot clear session as well
- b. Lack of server memory because server have to collect many of session in long time
- c. Client can absolutely complete transaction because session did not lost
- d)a and b
- e. None of above

Part Multiple-Choices (C)

- 52. How is a request dispatched to hello.jsp from a doGet() method? (1 correct answer)
- request.getRequestDispatcher().forward("hello.jsp");
- request.getRequestDispatcher().dispatch("hello.jsp");
- 3. equest.getRequestDispatcher("hello.jsp").forward(request, response);
- 4. request.getRequestDispatcher("hello.jsp").dispatch(request, response);



1. In the ServletConfig object of the servlet.



61. Assume the servlet HelloServlet that belongs to package com. The file HelloServlet.class is placed in the directory WEB-INF/classes/com. Is this a correct declaration of an init parameter for this servlet? (1 correct answer) <servlet> <servlet-name>Hello Servlet</servlet-name> <servlet-class>classes.com.HelloServlet</servlet-class> <init-param> <param-name>this</param-name> <param-value>Hello!</param-value> </init-param> </servlet> 1. Yes. 2. No, because servlet-name contains a space. 3. No, because servlet-class has a wrong value. 4. No, because param-name is a reserved Java keyword. 5. No, because param-value contains an explanation mark (!). 6. No, because init-param should be inside a servlet-mapping element 62. What happens when we compile and deploy this servlet? (1 correct answer) public class Test extends HttpServlet { 1. Compilation fails because there is no init() method defined. 2. An exception is thrown at runtime because service() has no method to call! 3. Deployment succeeds but we get a message "GET is not supported by this URL" if we access it.

63. What happens when this servlet is compiled, deployed and called? (1 correct answer)

```
public class Test extends HttpServlet {
        public void doGet(HttpServletRequest request,HttpServletResponse response)
                throws ServletException, IOException {
       // TODO
1. Compilation fails because doGet() is empty.
2. An exception is thrown at runtime because doGet() is empty.
3. Deployment succeeds but nothing is displayed to the user's browser
64. What happens when this servlet is compiled, deployed and called? (1 correct answer)
public class Test extends HttpServlet {
        public String doGet(HttpServletRequest request,HttpServletResponse response)
                throws ServletException, IOException {
        // TODO
        return null;
1. Compilation fails because doGet() must be void.
2. Deployment succeeds but nothing is displayed to the user's browser.
3. A NullPointerException is thrown at runtime because null is returned.
4. A ServletException is thrown at runtime because service() cannot find the proper doGet()
method.
65. What happens when this servlet is compiled and deployed? (1 correct answer)
public class Test extends HttpServlet {
        protected void doGet(HttpServletRequest request,HttpServletResponse response)
                throws IOException {
        response.setContentType("text/html; charset=UTF-8");
```

```
PrintWriter out = response.getWriter();
        out.println("<html><body>");
       out.println("Hello!!");
        out.println("</body></html>");
        out.close();
1. Compilation fails because doGet() is protected.
2. Compilation fails because doGet() does not declare a ServletException.
3. Deployment succeeds and clients are served just fine.
66. What happens when this servlet is deployed and called? (1 correct answer)
public class Test extends HttpServlet {
        public void doGet(final HttpServletRequest request,final HttpServletResponse response)
                throws IOException, ServletException {
        response.setContentType("text/html; charset=UTF-8");
        final PrintWriter out = response.getWriter();
        out.println("<html><body>");
       out.println("Hello!!");
       out.println("</body></html>");
        out.close();
1. An exception is thrown at runtime because the Container cannot modify the request and
responseobjects.
2. An exception is thrown at runtime when the outobject is closed.
3. Deployment succeeds and clients are served just fine
```

67. What happens when this servlet is deployed and called? (1 correct answer)

```
public class Test extends HttpServlet {
        public void doGet(HttpServletRequest request,HttpServletResponse response)
                throws ServletException, IOException {
        response.setContentType("text/html; charset=UTF-8");
        PrintWriter out = response.getWriter();
        // out.println("<html><body>");
        out.println("Hello!!");
        // out.println("</body></html>");
        out.close();
1. A ServletException is thrown at runtime because the <html> and <body> tags are missing.
2. Deployment succeeds and Hello!! is presented on the browser.
3. The server responds with a HTTP status code 404: "Not Found".
68. What happens when this servlet is compiled, deployed and called? (1 correct answer)
public class Test extends HttpServlet {
        public void doGet(HttpServletRequest request,HttpServletResponse response)
                throws ServletException, IOException {
        // response.setContentType("text/html; charset=UTF-8");
        PrintWriter out = response.getWriter();
        out.println("<html><body>Hello!!</body></html>");
        out.close();
```

- 1. Deployment succeeds and Hello!! is presented on the browser.
- 2. Compilation fails because the content type should be specified before any output is written.
- 3. An exception is thrown at runtime because the response has not an explicitly set content type.

```
69. Which of the following statements shoud be inserted for a successful compilation? (1 correct answer)
        public class Test extends HttpServlet {
                protected void doGet(HttpServletRequest request,HttpServletResponse response){
        // insert statement
1. request.getRequestDispatcher("hello.jsp").forward(request, response);
request.getRequestDispatcher("hello.jsp").forward(response, request);
3. response.getRequestDispatcher("hello.jsp").forward(request, response);
4. response.getRequestDispatcher("hello.jsp").forward(response, request);
5. None of the above.
70. What happens when the servlet with the following method is deployed and called? (1 correct
answer)
public void doGet(HttpServletRequest request,HttpServletResponse response)
                throws ServletException, IOException {
        response.getWriter().print('a');
        request.getRequestDispatcher("hello.jsp").forward(request, response);
        response.getWriter().print('a');
        response.getWriter().close();
1. An IllegalStateException is thrown at runtime because response.getWriter() is called more than once.
2. An IllegalStateException is thrown at runtime at line 5 because the request is dispatched after writing
data.
3. An IllegalStateException is thrown at runtime at line 6 because data is written after the request has
been
dispatched.
4. An IllegalStateException is thrown at runtime at line 7 because the writer is closed after the request has
```

been dispatched.

The browser displays the content of hello.jsp without any exception at runtime.

6. The browser displays aa without any exception at runtime.