#### 软体复习

考试的试卷选择题有原题,Test Demo. ppt 上有重复的题目 Servlet. ppt 上面的题目是 21\_1\_1 Java Servlets. ppt 课件上给出的题目,整理出来的,上面也有原题,还有作业上面的题目也有原题。这些材料都整理好放在了文件夹中了。

下面是题目的回忆;

#### 一. 选择题

1. JavaEE 容器 可以看一下相关的概念,最好看英文的 因为有时候不能够注意到老师在哪个细节处出题目,所有可以从网上百度一些题目,做做

## Java EE Architecture



- Which of the following is **not** true about JAVA EE containers?
- A. An EJB container manages the execution of all enterprise beans for a single Java EE application. Enterprise beans and their accompanying containers run on the JAVA EE server.
- B. A web container manages the execution of all JSP and servlet components for a single JAVA EE application. Web components and their accompanying container run on the JAVA EE server.
- C. An application client container manages the execution of all application client components for a single JAVA EE application. Application clients and their accompanying containers run on the JAVA EE server.
- D. An applet container is the web browser and Java plug-in combination that runs on the client machine.
- 2. 第二题没有记清楚,考的是一些 JPA 的属性 REQUIRE SUPPORT
- 3. 第三题就是 Servlet 上面的题目

# Consider the following code 中日科学技术大学

```
public void doGet(HttpServletRequest req, HttpServletResponse res) {
    HttpSession session = req.getSession();
    ServletContext ctx = this.getServletContext();
    if(req.getParameter("userid") != null) {
        String userid = req.getParameter("userid");
        //1
    }
}
```

You want the userid parameter to be available only to the requests that come from the same user.

# Which of the following lines would you insert at //1?



- a. session.setAttribute("userid", userid);
- b. req.setAttribute("userid", userid);
- c. ctx.addAttribute("userid", userid);
- d. session.addAttribute("userid", userid);
- e. this.addParameter("userid", userid);
- f. this.setAttribute("userid", userid);
- 4. 第四题考的是 doGet (默认情况下)和 doPost
- 5. 这个是老师给的练习题上面的,只是类似的题目 不是原题

# Java EE Architecture



- · Which of the following is not true of using the MVC best practice?
- A. The Model in an MVC-based application can be divided into two parts: the internal state of the system and the actions that can be taken to alter that state.
- B. The Controller portion of the application focuses on receiving requests from the client (most often a user running a web browser), deciding what business logic function is to be performed, and delegating responsibility for producing the next phase of the user interface to an appropriate View component.
- C. The Model determines how the results should be displayed.
- D. The View transfers user input to the Controller.

#### 6. 下面的也不是原题 是作业上相关的类似题目

3. Fragile Oars, a manufacturer of boating supplies has a mainframe based legacy application for customer and order management. Recently, Fragile Oars embarked on a project to add Internet presence to its products and services and hence created a company website. Since then, its management has realized the importance of having an eFront and wants to start conducting business over the Internet. Fragile Oars wants to use Java Script as the front-end. What is the best method to connect to this legacy system?

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Using Java Servlets, or RESTful, or webservice; (all components in business layer)

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4. Ibid is an e-auction house that auctions refurbished products. Each product has a minimum bid price. Buyers can query the system for a list of products and then select a product to bid on. They can then place a higher bid on the selected product. Transactional Integrity is very important as dirty reads, non-repeatable reads and phantom reads can lead to data inconsistency. What technology combination might be most suitable for addressing Ibid's needs?

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用 Jsp 和 servlet 做表示层,用无状态 session bean 用作 list of products 的检索, CMT 实体 bean 用作事务管理。↩

7. com. abc. TaxUtil TaxUtil. class 在哪个目录下?

9. 这个是第九题的题目

Which of the following is not an advantage of using the SessionFacade pattern?

- 10. 第十题是作业上的
- 2. In n-tier models, which tier is best suited for implementing the view, and controller components of an MVC application?

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Web Tier↓

# **JSP**



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- Which of the following are valid uses of the <<u>isp:useBean</u>> action?
   (Choose two) ( )
- A. <jsp:useBean id="address" class="AddressBean" name="address" />
- B. < <u>isp:useBean</u> id="address" class="<u>AddressBean</u>" type="<u>AddressBean</u>" />
- C. < jsp:useBean id="address" beanName="AddressBean" class="AddressBean" />
- D. < jsp:useBean id="address" beanName="AddressBean" type="AddressBean" />
- 13. 题干 State = <jsp:getProperty name= "address" property= "starte"/>
  Which of the following are equivalent to the third line above?(Three choices)?
  下面是三个正确的选项

<%out.write( "state = "); out.print(address.getState());%>

<%out.print( "state = " + address.getState());%>

State = <% = address.getState()%>注意前两个 % 前面都有 ; 最后一个 % 前面没有 ;

- 14. 这题考的是 Stateless Session Beans 和 Stateful Session Beans
- 16. 正确的选项: (应该是正确选项) Single table-per-class-hierarchy(InheritanceType.SINGLE\_TABLE)
  - 17. Asynchronous communication is achieved by using?

A. Remote Procedure Calls

B. RMI/IIOP

C. Message Oriented Middleware

D. CORBA

# Java EE Architecture



Your have been contacted by a company to help them improve the performance of their e-commerce application. You have suggested that the hardware on which the application is currently deployed (two web servers and a database server) be migrated to three web servers, an application server, and a database server (all on different machines). You assure the paracteristics of your suggested architecture? (Choose three.)

- A. Fat clients
- B. Thin clients
- C. Good separation of business logic

- D. Good scalability
- E. Poor separation of business logic
- F. Poor scalability
- G. There is no difference in the separation of business logic

### 二. 大题

- 1. Choose the most appropriate architectural pattern
  - a) Model-view-controller
  - b)3-tier
  - c) Peer-to-peer
  - d) Pipe-and-filter
  - e) Layered
  - f)Blackboard

下面给了5个场景,然后根据场景从上面选择

### 2. 问题

- 1) Describe the architecture scalability concern that is playing here formally.
- 2) Describe (potential) limitations to the scalability.
- 3) Describe at least two methods to impribe scalability os the access procedure to the serber cluster.

## 3. 题干:

Design a software architecture

Read the description below and do an architectural design. Your answer must include:

- 1) Architectural drivers
- 2) Architectural tacties and patterns
- 3) Logical view
- 4) Process view

下面给的就是场景描述了

# 祝好运!