

Name: _____

ID: _____

CSE 459 Internet Programming

Spring 2011 Final Exam

16.06.2011 Thursday, Duration: 75 minutes

Q1	Q2	Q3	Q4	Q5	SUM
/15	/15	/15	/15	/40	/100

Q1- (15 pts) a) What are the requirements for a Java class to be a bean.

b) Give two advantages of using beans instead of public fields.

Q2- (15 pts) Suppose that you are implementing a web portal for university students. Students give their ID and press the submit button. Then a web page that includes student info and information about his/her class appears. For each class (prep, freshman, sophomore, junior, senior), web page will have a different view. Draw and explain MVC flow of control appropriate for this web service.

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Q3- (15 pts) What are SQL injection attacks? How would you avoid them?

Q4- (15 pts) Compare Java-based tags and JSP-based tags? What are the differences, advantages, disadvantages?

Q5- (40 pts) Answer any four (not more) of the following questions.

- 1. Write three features of Groovy scripting language.**
- 2. Write two advantages of Struts over JSF.**
- 3. List two differences between SCTP and TCP.**
- 4. What is the FacesServlet and what is it responsible for?**
- 5. In which layer SSL works?**
- 6. Give two advantages and two disadvantages of AJAX**
- 7. Give an advantage and a disadvantage of SOAP**
- 8. What is Spring? Give three examples about modules of Spring Framework?**
- 9. What is Mashup? Write three advantages of it.**
- 10. What are the advantages of using component model in EJB (Enterprise Java Beans) ?**
- 11. Write basic elements of WSDL.**
- 12. Write two advantages and two disadvantages of The Proactor Design Pattern.**