CS547 Network Programming
Possible Quiz Questions (Quiz #7)
on March 2nd, 2023

The following is a list of possible questions for our quiz on March 2nd. Some of the questions will not be asked in the quiz. All the questions that will appear in the quiz will appear exactly as shown below (however, numeric parameters may be changed). The quiz is closed textbook, closed notes and closed neighbors. Note that the questions, which did not appear in this quiz, still may appear in the exams. You will find a solution for these questions during lectures.

#1: What is “a web service”?

#2: What is “web services”?

#3: The (network) programming method of “web services” has been popularly used for realizing “SOA”, but how? Show where in SOA (network) programming method of “web services” is used by showing “where” in the following figure.

#4: What are the three essential components “web services” assume? Name the three.

#5: In “web service”, what is UDDI for? Explain its purpose in “web services”.

#6: In “web service”, what is WSDL for? Explain its purpose in “web services”.

#7: In “web service”, what is SOAP for? Explain its purpose in “web services”.

#8: What are “UDDI registries” in “web services”? What are they for?

#9: The (network) programming concept proposed by “web services” is similar to ORB. What is (are) common between ORB and “web services”? 
#10: Why was “web services” proposed after ORB? Mention at least two different reasons.

#11: After 2001, network programming using “web services” lost its popularity in the industry (network software development). What made “web services” a popular network programming method after that (especially after 2010)?

#12: Why does “web services” assume web browsers as the standard client-side process? Mention at least two different reasons.

#13: Why did “web services” assume SOAP/XML/HTTP protocol combination?

#14: “web services” assumes SOAP as its application-level protocol. How is SOAP used in “web services”? Answer this question by giving two examples of information SOAP is used to transmit.

#15: ORB assumes “IIOP” for its application-level protocol. Why didn’t “web services” use “IIOP”? Mention two reasons (as examples).

#16: Explain how “web services” are used as a part of “Google Search”.

#17: Explain how “web services” are used as a part of “Amazon.com”.