

Bengal Engineering and Science University, Shibpur.
BE (IT) 7th Semester Examination 2012
Web Technology IT-704
Answer any 5 questions

Time: 3 Hours

Marks: 70

1. (a) Describe with a suitable diagram the functioning of Digital signature algorithm.
(b) Explain how encryption algorithms are categorized? [7+7]
2. (a) What are Flat Name Space and Hierarchical Name Space?
(b) Explain the two domain name resolving techniques? [7+7]
3. (a) With a diagram, explain how sub-keys are generated in DES.
(b) Draw the interaction diagram of the components and messages in a Kerberos Authentication Service. [7+7]
4. (a) Explain the RSA algorithm.
(b) In the implementation of the RSA algorithm, can we choose the prime numbers 3 and 5 in the first step of the algorithm? Justify?
(c) Get a public and a private key for $p = 19$ and $q = 21$. [5+4+5]
5. (a) What are the difference between method over loading and method overridden?
(b) What is copy constructor? Write a code that will give same effect of copy constructor in JAVA. [7+7]
6. (a) What do you mean by Dynamic method dispatching in JAVA? Explain with a suitable code.
(b) What is late binding and early binding in JAVA? [7+7]
7. (a) Explain with a suitable code, how access specifiers in JAVA behaves with the concept of package?
(b) Is there any way to access the members of a class without creating any instance of that class? [7+7]