This homework assignment has 3 problems, for a total of 52 points.

1. (6 points) Of the following statements, identify all that hold about names, identifiers, and namespaces.
   A. The main prerequisite for a unique identifier scheme is the existence of an architecture by which identifiers can be resolved
   B. A URL is simply a URI for which a resource exists
   C. A URL of the http scheme for which the expected resource doesn’t exist can still be a viable URI

2. (22 points) Of the following statements, identify all that hold about architecture.
   A. Identity management is an important infrastructure module in enterprise architectures
   B. The data management module in an enterprise is expected to ensure integrity of the data, to support recovery from various kinds of failures, and to host the application logic
   C. In three-tier architecture, the business logic resides in the middle tier
   D. The architecture of an IT system presents a high-level model of the system, including its key components and interconnections, and satisfying any constraints on them
   E. Just like architectures for buildings, all IT architectures are equally good; the only reasons for choosing one are matters of personal taste
   F. An “ility” is any of the qualities of service typically associated with aspects other than its input-output behavior; these aspects include availability, reliability, maintainability, and such
   G. An architecture in an established field such as networking or power systems is specified by the products that the major vendors promote in that field
   H. IT Governance deals with the administration of an IT system from the perspective of its stakeholders (users, staff, business partners)
   I. Under the data-centric view of XML documents, the Database Administrator (DBA) has an important role in IT Governance regarding designing document schemas and the storage of documents
   J. Upgrading an IT system so it offers direct web access to users means that you might need to consider different peak loads, but nothing else changes
   K. We define latency as a nonfunctional property because it has no bearing on the functionality of a given service

3. (24 points) Of the following statements, identify all that hold about architecture.
   A. Software development is far and away the most important phase in the typical business service life cycle followed by an IT organization
   B. A connector in an architecture can sometimes be viewed as a component in its own right
   C. The purpose of an architecture in an IT setting is to nail down the implementation of an IT system
   D. In a well-defined approach for IT governance, each individual staff member, user, and other stakeholder plays exactly one organizational role
   E. The main value of application servers is that they are an architectural component that integrate considerations of business logic with considerations of infrastructure
   F. Middleware in an IT setting refers exclusively to networking components that come in the “middle” between interacting business partners
G. One of the important payoffs of developing an open architecture is that it yields complete specifications of the architectural components that can function in the system being architected.

H. The emerging trend in middleware is the increasing development of explicit middleware to replace older implicit middleware.

I. DoDAF, The Department of Defense Architecture Framework, provides a standardized methodology for developing an enterprise architecture.

J. DoDAF, The Department of Defense Architecture Framework, was motivated to develop and maintain short-lived information systems that arise in agile environments in the military and elsewhere.

K. An architecture needs to consider system requirements but not factors like the skills of the enterprise staff or of the workforce broadly.