

Problem	1	2	3	Total
Points:	6	22	24	52
Score:				

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