

Republic of the Philippines
SULTAN KUDARAT STATE UNIVERSITY
Isulan Campus

MIDTERM EXAMINATION
IS312 SYSTEM INFRASTRUCTURE AND INTEGRATION
October 16 – 18, 2024

Test I. Identification. Write the correct answer to complete the statement. (2pts each)

1. What do we call on a groups of personnel organized by function that operate independently of one another and without cross-collaboration?
 2. It is refers to combining all of the organization's physical and virtual components. Linking several sub-systems into cohesive bigger system that functions as a whole.
 3. It is a systems or a type of information technology that enables businesses to connect many systems into a single, enterprise-wide application with an integrated database management system (DBMS).
 4. It is a system integration approach which convergence of two or more systems by permitting easy data flows across applications.
 5. The purpose of business process integration is to enable integration not just via the sharing of information, but also via the management of that information using simple tools. It is concerned with coordinating or controlling the flow of data between source and target applications.
 6. What do we call on the system integration approach that allows apps to share business logic and procedures, allowing them to work together. One example of this is the web services.
 7. A type of functional solos that functionalized organizations into five fundamental areas: planning, organizing, coordinating, commanding, and controlling.
 8. The ability to access a variety of systems (both internal and external corporate systems) through a single user interface or application is provided.
 9. It refers to type of functional silos which Harvard University's Robert Anthony discovered that businesses split responsibilities in hierarchical stages, from strategic planning through managerial control and operation control.
 10. What step in application integration that is most difficult, time-consuming, and necessary step in the procedure? This step is necessitates interacting with paper, people, and systems in order to gather the information needed to accurately describe the Enterprise Application Integration (EAI) problem so that it may be studied, modeled, and refined.

Test II. Multiplr Choice. For each question, select the option that you believe is the most correct. (2pts each)

18. Among the three basic steps for implementing data-level of the Enterprise Application Integration, which of the following is the correct step in making sense of the data?
- Identifying the data, cataloging the data and building the enterprise metadata model
 - Examining the data, recording the data and building the enterprise integration
 - Collecting the data, analyzing data, and using data
 - identifying the data,
19. It is important to properly observed the steps in application integration. Among the steps, which steps where the integrator map the movement of data from system to system, identifying which data element or interface the information is traveling from and where it will eventually go?
- Identifying the Schedma
 - Mapping Information Management
 - Content Transformation Scenarios
 - Applying Technology
20. What do we call on the category of portal which refers to a system portals where expands the design of a single-system gateway to multiple enterprise systems. Application server architecture is used. Users may pull data from these systems and update it using a single web browser interface that may be accessible via an extranet or the internet?
- Single-System Portals
 - Enterprise Portals
 - Multiple-Enterprise-System Portals
 - Single-Multiple System Portals

Test III. True or False. If you believe the statement is correct, mark True. If you believe the statement is incorrect, mark False. (2pts each)

- When it comes to software, system integration is often understood as the practice of connecting disparate IT systems, services, and/or software to make them all operate together operationally.
- Establishment of adequate testing philosophy is one of the causes of problems in system integration.
- Information Oriented is the convergence of two or more systems by permitting easy data flows across applications
- Functional Operations, Tactical Management and Strategic Management are refers to a Horizontal Silos.
- Today's successful organizations rely heavily on information systems. Information systems (IS) are important because they process data from corporate inputs to provide information that can be used to manage business operations.
- The development of IS implies that its primary purpose has been to serve the organization's changing information demands.
- Enterprise Resource Planning purpose is to bring together all of an organization's departments and operations into a single infrastructure that shares a common database and meets the demands of each department. ERP systems are designed to replace a variety of systems that are often seen in businesses.
- Enterprise Resource Planning are generally commercial software packages that allow for the collection and integration of data from single department within a company.
- Lehtonen defined system integration, in its broadest sense, as the act of linking several sub-systems (components) into a cohesive bigger system that functions as a whole.
- In order to successfully implement an integrated solution, the company must first establish how information flows through it and how it does business.
- Starting from the scratch making of processes is better process than the current business processes and methods in setting of application requirements.
- The establishment of an application interface directory is the ideal place to start with interfaces.
- System Integration is just a simple application for business development.
- An "event" is something like a customer signing up for credit at an online Web store.
- Computer Hardware, Telecommunication, Data Management Services are some of the IT/IS Infrastructure.

Test IV. Essay. Discuss the following and make sure to understand what is being asked.

- Among the system integration approaches, identify at least one (1) and explain its systems development applicqation. ((5pts)
- How does effective systems integration enhance operational efficiency and drive innovation in business development? (5pts)

.....Good Luck and God Bless.....