

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

11. The following are the system integration approaches, except:
 - a) Information-oriented
 - b) Business process integration-oriented
 - c) Service Oriented
 - d) Subject-Oriented
12. The following are the Horizontal Silos fundamental areas, except:
 - a) Planning & Organizing
 - b) Testing
 - c) Staffing
 - d) Reporting
13. What do we call on the act or state of sticking together or logical agreement which applications and databases are distinct of one another in cohesiveness?
 - a) Coupling
 - b) Cohesion
 - c) Data Replication
 - d) Data Federation
14. What do we call on the information-oriented integration that connects applications in such a way that they are reliant on one another, exchanging methods, interfaces, and something data?
 - a) Coupling
 - b) Cohesion
 - c) Data Replication
 - d) Data Federation
15. What do we call on the practice of combining various databases into a single virtual database which the data gathering and dissemination to the physical database is handled by integration software?
 - a) Coupling
 - b) Cohesion
 - c) Data Replication
 - d) Data Federation
16. What components of portal architecture which PC or any other device that can display HTML and images and runs a web browser?
 - a) Web Client
 - b) Database Servers
 - c) Web Servers
 - d) Application Servers
17. What components of portal architecture which provide middle layer between back-end applications, databases, and the web server. It communicates with both the web server and the resource server using transaction-oriented application development?
 - a) Web Client
 - b) Database Servers
 - c) Web Servers
 - d) Application Servers

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?
- a) Identifying the data, cataloging the data and building the enterprise metadata model
 - b) Examining the data, recording the data and building the enterprise integration
 - c) Collecting the data, analyzing data, and using data
 - d) 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?
- a) Identifying the Schedma
 - b) Mapping Information Management
 - c) Content Transformation Scenarios
 - d) 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?
- a) Single-System Portals
 - b) Enterprise Portals
 - c) Multiple-Enterprise-System Portals
 - d) 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)

- 21. 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.
- 22. Establishment of adequate testing philosophy is one of the causes of problems in system integration.
- 23. Information Oriented is the convergence of two or more systems by permitting easy data flows across applications
- 24. Functional Operations, Tectical Management and Strategic Management are refers to a Horizontal Silos.
- 25. 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.
- 26. The development of IS implies that its primary purpose has been to serve the organization's changing information demands.
- 27. 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.
- 28. Enterprise Resource Planning are generally commercial software packages that allow for the collection and integration of data from single department within a company.
- 29. 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.
- 30. In order to successfully implement an integrated solution, the company must first establish how information flows through it and how it does business.
- 31. Starting from the scratch making of processes is better process than the current business processes and methods in setting of application requirements.
- 32. The establishment of an application interface directory is the ideal place to start with interfaces.
- 33. System Integration is just a simple application for business development.
- 34. An "event" is something like a customer signing up for credit at an online Web store.
- 35. 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.

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

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