

Midterm Examination

- Due Apr 15 at 7pm
- Points 60
- Questions 60
- Available Apr 15 at 4:30pm - Apr 15 at 7:30pm 3 hours
- Time Limit 90 Minutes

Instructions

Answer the following questions. For Fill in the blanks, use SMALL LETTERS ONLY.

Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	36 minutes	46 out of 60

❗ Correct answers are hidden.

Score for this quiz: 46 out of 60

Submitted Apr 15 at 5:09pm

This attempt took 36 minutes.



Question 1

1 / 1 pts

Any type of software that facilitates communication between two or more software systems

- ☐ System Integration
- ☐ Star Integration
- ☒ Middleware Integration
- ☐ Point-to-Point Integration



Question 2

1 / 1 pts

It depicts how information moves throughout the enterprise conceptually.

- ☐ Star Integration
- ☐ Physical Middleware Model
- ☐ Point-to-Point Integration
- ☒ Logical Middleware Model



Question 3

1 / 1 pts

This type depicts both the actual method of information movement and the technology employed,

- ☐ Star Integration
- ☐ Point-to-Point Integration
- ☒ Physical Middleware Model
- ☐ Logical Middleware Model



Question 4

1 / 1 pts

It uses a simple pipe to allow one application to link to another application.

- ☐ SYNCHRONOUS MIDDLEWARE
- ☒ POINT-TO-POINT MIDDLEWARE
- ☐ MANY-TO-MANY MIDDLEWARE
- ☐ ASYNCHRONOUS MIDDLEWARE



Question 5

1 / 1 pts

Any type of middleware that can deal with more than two source or target applications at the same time

- ☐ SYNCHRONOUS MIDDLEWARE
- ☐ POINT-TO-POINT MIDDLEWARE
- ☒ MANY-TO-MANY MIDDLEWARE
- ☐ ASYNCHRONOUS MIDDLEWARE



Question 6

1 / 1 pts

This middleware makes it possible for people to respond and act on their own terms

- ☒ SYNCHRONOUS MIDDLEWARE
- ☐ MANY-TO-MANY MIDDLEWARE
- ☐ ASYNCHRONOUS MIDDLEWARE
- ☐ POINT-TO-POINT MIDDLEWARE



Question 7

1 / 1 pts

This type of middleware communication model is usually synchronous in nature.

- ☒ DIRECT COMMUNICATION
- ☐ PUBLISHED COMMUNICATION
- ☐ QUEUED COMMUNICATION
- ☐ FIRE AND FORGET



Question 8

1 / 1 pts

This type of middleware communication model typically does not block either the calling or the remote programs from proceeding with processing

- ☐ DIRECT COMMUNICATION
- ☐ FIRE AND FORGET
- ☒ QUEUED COMMUNICATION
- ☐ PUBLISHED COMMUNICATION



IncorrectQuestion 9

0 / 1 pts

This type of middleware communication model's purpose is to allow a source or target application to broadcast specific types of messages to multiple recipients, bypassing auditing and response features

- ☐ FIRE AND FORGET
- ☐ QUEUED COMMUNICATION
- ☒ PUBLISHED COMMUNICATION
- ☐ DIRECT COMMUNICATION



Question 10

1 / 1 pts

On a Middleware Communication Model, this is the provider of the information.

- ☐ Caller
- ☒ Publisher
- ☐ Subscriber
- ☐ Client



IncorrectQuestion 11

0 / 1 pts

A tightly coupled integration between two or more endpoints

- ☐ Web Services
- ☐ Point-to-Point Integration
- ☒ Middleware
- ☐ Enterprise Application Integration



Question 12

1 / 1 pts

It is designed to integrate the information in companies' back-office systems with their front-office applications using a single integration layer

- ☐ Middleware
- ☐ Web Services
- ☒ Enterprise Application Integration
- ☐ Point-to-Point Integration



IncorrectQuestion 13

0 / 1 pts

It is a collection of technologies which combines applications, or parts of applications, in a common and structured way

- ☐ Enterprise Application Integration
- ☒ Web Services
- ☐ Point-to-Point Integration
- ☐ Middleware



Question 14

1 / 1 pts

Simplest form of integration

- ☐ Middleware
- ☐ Enterprise Application Integration
- ☐ Web Services
- ☒ Point-to-Point Integration



Question 15

1 / 1 pts

Places a message in the queue

- ☒ Sender
- ☐ Operator
- ☐ Receiver
- ☐ Integration Broker



Question 16

1 / 1 pts

It involves standards-based technology that let disparate systems talk to each other over the Internet or Internet protocol-based networks, regardless of platform or language

- ☐ Point-to-Point Integration
- ☐ Middleware
- ☐ Enterprise Application Integration
- ☒ Web Services



Question 17

1 / 1 pts

Allows integration not only by sharing information but also by managing the sharing of information with easy to use tools

- ☐ Service-Oriented Integration
- ☐ Information Oriented Integration
- ☒ Business Process integration-oriented
- ☐ Portal-Oriented Integration



Question 18

1 / 1 pts

Allows a multitude of systems (both internal and external enterprise systems) to be view through a single user interface or application usually using a web browser

- ☐ Information Oriented Integration
- ☐ Service-Oriented Integration
- ☒ Portal-Oriented Integration
- ☐ Business Process integration-oriented



Question 19

1 / 1 pts

It is also known as Spaghetti Integration

- ☐ Vertical Integration
- ☐ Common Data Format
- ☒ Star Integration
- ☐ Horizontal Integration



IncorrectQuestion 20

0 / 1 pts

It is also known as Enterprise Service Bus (ESB)

- ☐ Vertical Integration
- ☒ Horizontal Integration
- ☐ Common Data Format
- ☐ Star Integration



IncorrectQuestion 21

0 / 1 pts

A slow system integration fix can turn into your worst nightmare.

- ☒ True
- ☐ False



Question 22

1 / 1 pts

Security risks can arise with patch updates, and become incompatible with connections in Point to Point integration

- ☒ True
- ☐ False



IncorrectQuestion 23

0 / 1 pts

Changes are often out of the control of the supplier and in the hands of the user.

- ☒ True
- ☐ False



Question 24

1 / 1 pts

In Point-to-Point Integration, Complex integration architectures are prone to failure and stability issues.

☒ True

☐ False



Question 25

1 / 1 pts

Integration can be achieved by connecting an application through an integration server that provides an information bus or a hub and spoke architecture to tie disparate applications together.

☒ True

☐ False



IncorrectQuestion 26

0 / 1 pts

The oldest type of middleware is Message-Oriented, it was introduced in C language and Unix operating system.

☒ True

☐ False



Question 27

1 / 1 pts

Message-Oriented Middleware relies on asynchronous.

☒ True

☐ False



Question 28

1 / 1 pts

A distributed object middleware is used as mechanism to extract information to extract from either local or remote databases

☐ True

☒ False

DATABASE-ORIENTED



IncorrectQuestion 29

0 / 1 pts

A transactional middleware provides tightly coupled integration

☐ True

☒ False



Question 30

1 / 1 pts

A transactional middleware provides mechanism for coordinating information movement and method sharing between many different resources

☒ True

☐ False



IncorrectQuestion 31

0 / 1 pts

A transactional middleware provides connectors to resources such as databases, other applications, and queues.

☒ True

☐ False



IncorrectQuestion 32

0 / 1 pts

In Information-oriented Integration, it allows application integration architects to place a well-defined business process as the controlling entity, able to access both information and processes encapsulated in remote systems

☒ True

☐ False



IncorrectQuestion 33

0 / 1 pts

In Service-Oriented Integration, Integration of two or more systems is allowing simple exchanges of data between applications

☐ True

☒ False



Question 34

1 / 1 pts

In MANY-SERVER MANY-ROUTER MODEL, multiple application server processes access a common database;

☐ True

☒ False

MANY-SERVER SINGLE-ROUTER MODEL



IncorrectQuestion 35

0 / 1 pts

In MANY-SERVER SINGLE-ROUTER MODEL, multiple processes communicate with clients

- ☒ True
- ☐ False



Question 36

1 / 1 pts

Application-Server does not provide user interface in development mechanisms.

- ☐ True
- ☒ False

Does provides



IncorrectQuestion 37

0 / 1 pts

Application-Server has a few common features with TP monitor.

- ☒ True
- ☐ False



Question 38

1 / 1 pts

Call-level Interfaces has Common APIs that span several types of databases, providing access to any number of databases through a well defined common interface most often found.

- ☒ True
- ☐ False



Question 39

1 / 1 pts

Integration server facilitates information movement between two or more resources

- ☒ True
- ☐ False



Question 40

1 / 1 pts

Integration server cannot join many applications by using common rules and routing engines

- ☐ True
- ☒ False

Can Join



Question 41

1 / 1 pts

Fire and forget allows the middleware user to fire off a message, and then ____ about it

forget



Question 42

1 / 1 pts

Many to many middleware links many applications to ____ other applications

many



Question 43

1 / 1 pts

An object-based model provides a familiar ____ to programmers and allows the use of many existing object-based tools and techniques for designing systems and applications.

abstraction



Question 44

1 / 1 pts

At the ____ the runtime system dispatches the request to an appropriate object skeleton who is responsible for unmarshaling the request and invoking the appropriate methods on a local object instance.

server



Question 45

1 / 1 pts

____ references, are valid within a single address space

local



Question 46

1 / 1 pts

___ references, are valid across 2 address spaces and machines.



Question 47

1 / 1 pts

Persistent objects are objects that exist until they are explicitly ___



IncorrectQuestion 48

0 / 1 pts

Transient objects are objects that exist only as long as they are ___ by some client



Question 49

1 / 1 pts

___ objects are objects which do have their own thread of control.



Question 50

1 / 1 pts

___ objects are objects that have no own thread of control associated with them



Question 51

1 / 1 pts

Security risks can arise with patch updates, and become ___ with connections



Question 52

1 / 1 pts

Keeping ___ connectors up to date eats in to valuable development and financial resources

integration



Question 53

1 / 1 pts

___ are often out of the control of the user and in the hands of the supplier

changes



Question 54

1 / 1 pts

A ___ system integration fix can turn into your worst nightmare

quick



Question 55

1 / 1 pts

Point-to-point integration is seen by many SMEs as a way to quickly solve a data synchronization issue between two or more ___

databases



Question 56

1 / 1 pts

POINT-TO-POINT MIDDLEWARE uses a simple ___ to allow one application to link to another application

pipe



Question 57

1 / 1 pts

Layer 4 is the ___ layer

application



Question 58

1 / 1 pts

Layer 3 is the ___ layer

transport



Question 59

1 / 1 pts

The link layer is also known as the ____ layer

physical



Question 60

1 / 1 pts

The internet layer attaches the senders IP address to the ____ and directs them to and from devices, this layer is done through routers.

packets

Quiz Score: 46 out of 60