Name:
Midterm Examination
COEN-317, Section 2
Total points possible: 30
1. The architecture of a decentralized distributed system in which processes serve an
equal role is known as a system.
(1 point)
2. A is a middleware layer
component that solves the problem of incompatible interfaces in a distributed system.
(1 point)
3 is a form of persistent
asynchronous communication that offers intermediate-term storage capacity for
messages "without requiring either the sender or receiver to be active during message
transmission." (1 point)
4. A "acts as an application-level
gateway in a message-queueing system. Its main purpose is to convert incoming
messages so that they can be understood by the destination application." (1 point)

The original desires of the control	ission Control Protocol) are:
-	(1 point)
•	(1 point)
•	(1 point)
•	
•	(1 point)
6. When "a process is offered a facility to locally	call a procedure that is effectively
6. When "a process is offered a facility to locally implemented on a remote machine" this is know	n as a:
implemented on a remote machine" this is know	n as a:
implemented on a remote machine" this is know	n as a: (1 point)
implemented on a remote machine" this is know	e that has been submitted for
implemented on a remote machine" this is known. 7. A form of communication in which "a message	e that has been submitted for

8. The	pattern of communication
"is used in traditional client-server communicat	ion" in which the client application sends
"a request message to a server and expects th	e later to respond with an appropriate
response." (1 point)	
9. In the	pattern of communication,
"clients subscribe to specific messages" sent fr	rom the server. (1 point)
10. The	pattern of communication
is characterized by a push-pull process in which	h a process pushes out its results under
the assumption that other processes will pull in	those results. (1 point)
11. A process which acts as both a client and a	a server at the same time is known as a
	(1 point)

12. The acronym ACID refers to four character	eristics of transactions in database
applications. These four characteristics which	n define ACID are:
•	(1 point)
13. One of the four layers in cloud computing	and the lowest layer provides "the means
to manage the necessary hardware: processor	ors, routers, but also power and cooling
systems." This layer is known as:	
(1 point)	
14. One of the four layers in cloud computing	, this layer forms "the backbone for most
cloud computing platforms" by "allocating and	d managing virtual storage devices and
virtual services." This layer is known as:	
	(1 point)

15. One of the four layers in cloud computing, this layer provides a "means to easily
develop and deploy applications that need to run in a cloud." This layer also provides
a vendor-specific API, which includes calls to uploading and executing a program in
hat vendor's cloud." This layer is known as:
16. One of the four layers in cloud computing, this layer runs programs in the vendor's
(1 point)
17. A "collection of autonomous computing elements that appears to its users as a single coherent system" is defined as: (1 point)
18. Scalability in distributed systems can be measured along the following three dimensions:
(1 point)
(1 point)
(1 point)