Rectangular Snip
1. Which of the following is true for synchronous client server? * (0/1 Point)
All the mentioned.
Server failures do not have to be handled immediately.
Client cannot do any other work while waiting for reply. 🗸
The client continues without waiting for an answer from the server.
2. Reading (not modifying) incoming mail while you are on the move, and when each time you connect to a different e-mail server, that server fetches (at least) all the updates from the server you previously visited. This is called client-centric consistency model. *

(1/1 Point)

Monotonic Reads

✓

Monotonic Writes

Read Your Writes

Write Follow Reads

X	
3. What are the characteristics of code migration? *	
(0/1 Point)	
Transfer part of entire data	
All the mentioned	
☐ Transfer computation rather than the data ✓	
Execute the entire process on a different machine	
4. Relocation transparency is * (1/1 Point)	
Hide that an object may be shared by several independent users.	
Hide that an object may move to another location by the distribution middleware.	
Hide the failure and recovery of an object.	
5. The file server is considered? *	
(1/1 Point)	
Dispatcher server	
Distributed server	
A stateless server	
\times	
 A data consistency model in which shared data are made consistent when a critical region is exited. * (0/1 Point) 	
○ Group consistency ✓	
Causal Consistency	
All the mentioned	

7. A write operation by a process on a data item x following a previous read operation on x by the same process is guaranteed to take place on the same or a more recent value of x that was read this is called client-centric consistency model. * (0/1 Point)
Monotonic Reads
○ Write Follow Reads ✓
Read Your Writes
Monotonic Writes
8. A server process running on a remote machine is identified by * (1/1 Point)
■ Host IP and port number ✓
O Host IP
Endpoint or Port number
Host IP and Process ID
9. System size scalability means * (1/1 Point)
Increasing distance between nodes.
■ Increasing number of users and/or processes. ✓
Decreasing number of users and/or processes.
Decreasing distance between nodes.
10. A new write on a replica should wait for all old writes on any replica, this is called client-centric consistency model. * (1/1 Point)
Monotonic Reads
Read Your Writes
Write Follow Reads
■ Monotonic Writes ✓

11. The TCP Handoff protocol is used in * 👊 (1/1 Point)
All the mentioned.
Peer to peer network.
■ Distributed servers cluster in a LAN. ✓
Distributed servers in a WAN.
12. Which of the following is true for the electronic mail system? * (1/1 Point)
Both coordinating processes temporally coupled and referentially coupled.
Both coordinating processes temporally decoupled and referentially coupled.
Both coordinating processes temporally decoupled and referentially decoupled.
Both coordinating processes temporally coupled and referentially decoupled.
13. Which of the following is true for the event-based architecture? * (0/1 Point)
Both coordinating processes temporally decoupled and referentially coupled.
Both coordinating processes temporally coupled and referentially coupled.
Both coordinating processes temporally decoupled and referentially decoupled.
Both coordinating processes temporally coupled and referentially decoupled.
14. An architecture that moves the client query to a middle tier where a stateless design can be used
is called * (1/1 Point)
■ Three tier architecture ✓
Client Server Architecture
Peer to Peer architecture
Stateful architecture

15. The skype network follows which organization? * (1/1 Point)		
Structured peer to peer		
■ Hierarchical peer to peer ✓		
Client server		
Unstructured peer to peer		
16. Migration transparency is * (1/1 Point)		
Hide that an object may be shared by several independent users.		
$igcirc$ Hide that an object may move to another location by the distribution middleware. \checkmark		
Hide that an object may be moved to another location while in use		
Hide the failure and recovery of an object.		

17. Which of the following is not an advantage of distributed systems? * (1/1 Point)
Scalability
Resource sharing
All the mentioned
Reliability ✓
18 is used to interrupt a server. * (1/1 Point)
○ Control communication ✓
Data communication
No way to interrupt a server
All the mentioned
19. In which structure, the processing nodes are organized as an overlay with specific structure? * (1/1 Point)
Client server
Structured Peer to peer ✓
Structured client server
Unstructured peer to peer
20. Access transparency is * (1/1 Point)
Hide that an object is replicated.
Hide where an object is located.
■ Hide differences in data representation and how an object is accessed. ✓
Hide that an object may be shared by several independent users.

21. Which of the following is used to search for a data in a node in the unstructured peer to peer network? * (1/1 Point)
A specific route is followed from the source to the destination.
Using Random walks search.
Using Flooding search.
Using Flooding search or Random walks search.
22. Which of the following cloud organization that provides web services and applications? * (1/1 Point)
Software as a Service ✓
Resources as a Service
☐ Infrastructure as a Service
Platform as a Service.
23. In transient communication, * (1/1 Point)
All the mentioned.
Communication middleware stores the message as long as it takes to deliver it.
Communication middleware discards message when it cannot be delivered at the receiver.
Communication middleware dispatches messages to the neighbor server.
24. PlanetLab is an example of * (1/1 Point)
Distributed grid
Distributed grid All the mentioned

25. Which of the following cloud organizations that provides hardware resources in terms of virtual machines? * [7] (1/1 Point)
Resources as a Service
■ Infrastructure as a Service ✓
Software as a Service
Platform as a Service.
26 is used to save server resources and forks the server process when a request comes in. * (1/1 Point)
All the mentioned
Super-server daemon ✓
Internet Associated number Authority table
A special daemon runs on the server

27. Which of the following is true for a temporally coupled coordination? * 🛄 (1/1 Point)
There is no need for direct communication.
All the mentioned.
Both coordinating processes share data space.
\bigcirc Both coordinating processes have to be up and running at the same time. \checkmark
28 is used to dynamically assign a dynamic server endpoint. * (1/1 Point)
A special daemon runs on the server
Super-server
Internet Associated number Authority table
All the mentioned

n Cluster Computing, which types of computer resources are there? * [1/1 Point]
Heterogeneous resources within a single administrative domain.
Homogenous resources across multiple administrative domain.
Heterogeneous resources across multiple administrative domain.
■ Homogenous resources within a single administrative domain. ✓
Which of the following is the benefit of using threads? * (1/1 Point)
Exploit parallelism
■ All the mentioned ✓
Avoid I/O blocking
Avoid process context switch

31. Distribution transparency is * (1/1 Point)
All the mentioned
Failure transparency.
Replication transparency.
Access transparency.
32. A server that does not handle the request but passes the request to another thread or process called* (1/1 Point)
Iterative server
○ Concurrent server ✓
Single thread server
All the mentioned

33. Concurrency transparency is * (1/1 Point)
Hide that an object is replicated.
Hide where an object is located.
Hide differences in data representation and how an object is accessed.
34. An iterative server is* (1/1 Point)
■ A single thread server ✓
A concurrent server
A multithread server
All the mentioned

35.	The server which never keep accurate information about the status of a client after having handled a request is called* (1/1 Point)
	A multithread server
	A single thread server
	A stateful server
36.	Which of the following is true for the share data space communication? * (1/1 Point)
	Both coordinating processes temporally coupled and referentially decoupled.
	Both coordinating processes temporally coupled and referentially coupled.
	Both coordinating processes temporally decoupled and referentially coupled.
	\bigcirc Both coordinating processes temporally decoupled and referentially decoupled. \checkmark

37. Which of the following is an example of distributed pervasive system? * (1/1 Point)
Cluster computing
Sensors networks ✓
Cloud computing
Grid Computing
38. In Grid Computing, which types of computer resources are there? * (1/1 Point)
Heterogeneous resources across multiple administrative domain.
Homogenous resources across multiple administrative domain.
Heterogeneous resources within a single administrative domain.
Homogenous resources within a single administrative domain.

39. One of the problems of geographical scalability is * 🛄 (1/1 Point)
All the mentioned.
Catency.
Multipoint communication.
Unreliable communication.
40. Making copies of data available or processes at different machines is * (0/1 Point)
Partition data and computations across multiple machines.
Relocation
All the mentioned.
Replication. ✓

41.	Which consistency protocol uses the voting scheme? * (0/1 Point)
	Local-Write Protocol
	Active Replication Protocol
	Remote-Write Protocol
	○ Quorum-Based Protocol ✓
42.	One of the replication problem is * (1/1 Point)
	○ Consistency ✓
	Network latency.
	All the mentioned.
	☐ Failure

45. Process Migration can be done in heterogeneous systems using * 🗔 (1/1 Point)
Context switch
Cloning
○ Virtual machines ✓
○ Threads
X
46. Concurrent writes must be seen in a same order on different machines is the necessary condition in

47. The capability of a system to adapt to increasing service requests is called * (1/1 Point)
○ Tolerance
Capacity
Scalability ✓
Reliability
48. The REST architecture is considered a * (1/1 Point)
Object-based architecture
Resource based architecture 🗸
Layered architecture
Event based architecture

49. Administrative scalability means * 🗔 (1/1 Point)
Decreasing number of administrative domains.
Increasing heterogeneous machines.
■ Increasing number of administrative domains. ✓
Decreasing heterogeneous machines.
50. In which consistency protocol the primary replica migrates to the process wanting to perform an update * (0/1 Point)
○ Local-Write Protocol ✓
Replicated-Write Protocols
Remote-Write Protocol
Active Replication Protocol

51. In persistent communication, * (1/1 Point)
$igordown$ Communication middleware stores the message as long as it takes to deliver it. \checkmark
All the mentioned.
Communication middleware dispatches messages to the neighbor server.
Communication middleware discards message when it cannot be delivered at the receiver.
52. Failure transparency is * (1/1 Point)
Hide that an object may move to another location by the distribution middleware.
Hide that an object may be moved to another location while in use
O
Hide that an object may be shared by several independent users.

53. Which of the following is true for synchronous client server? * (1/1 Point)
Server failures have to be handled immediately.
Client issues request and blocks until it receives reply.
Client and server have to be active at time of communication.
All the mentioned.
54. The web server is considered? * (1/1 Point)
Dispatcher server
A stateful server
Distributed server

55. In which architecture, the distributed application consists of a logical layering? * (1/1 Point)
Event based architecture
Resource based architecture
Service oriented architecture
■ Layered architecture ✓
56. In which consistency protocol the clients write at any replica where there is (no primary replicas and the altered replica will propagate updates to other replicas? * (0/1 Point)
Remote-Write Protocol
Quorum-Based Protocol
Cocal-Write Protocol
○ Active Replication Protocol ✓

57. Replication transparency is * (1/1 Point)
Hide where an object is located.
Hide that an object may be shared by several independent users.
Hide differences in data representation and how an object is accessed.
○ Hide that an object is replicated. ✓
X
58. In which protocol all write operations are forwarded to the primary replica? * (0/1 Point)
Cocal-Write Protocol
Replicated-Write Protocols
Remote-Write Protocol ✓
Active Replication Protocol

Partition data and computations across multiple machines. All the mentioned. Hide communication latencies. Replication. 60. Concurrent writes may be seen in a different order on different machines is the necessary condition in* (0/1 Point)
Hide communication latencies. Replication. 60. Concurrent writes may be seen in a different order on different machines is the necessary condition in* (0/1 Point)
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60. Concurrent writes may be seen in a different order on different machines is the necessary condition in* (0/1 Point)
condition in* (0/1 Point)
condition in* (0/1 Point)
Sequential Consistency
Sequential Consistency
All the mentioned
○ Causal Consistency ✓
Group consistency

61.	ographically scalability means *
	Decreasing distance between nodes.
	Increasing distance between nodes. 🗸
	Decreasing number of users and/or processes.
	Increasing number of users and/or processes.
62.	ingle client/server may suffer from * 1 Point)
	Administrative scalability.
	Heterogeneous scalability.
	All the mentioned.
	Size scalability. 🗸

63. The mobile IP, home address, and car of address is used in * (1/1 Point)	
Distributed servers in a WAN.	
Distributed servers cluster in a LAN.	
Peer to peer network.	
All the mentioned.	
64. Which of the following is true for asynchronous client server? * (1/1 Point)	
Client cannot do any other work while waiting for reply.	
Server failures have to be handled immediately.	
All the mentioned.	
The client continues without waiting for an answer from the server.	
65. In which architecture, the distributed application consists of a composition of many different services? * (1/1 Point)	
Event based architecture	
Layered architecture	
Service oriented architecture	
Resource based architecture	