

Midterm Exam

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Points:

52/70

1.Which of the following is true for a temporally coupled coordination?Single choice.

(1/1 Point)

- ☐ All the mentioned.
- ☐ There is no need for direct communication.
- ☐ Both coordinating processes have to be up and running at the same time.
- ☐ Both coordinating processes share data space.

Correct answers: Both coordinating processes have to be up and running at the same time.

2..... is used to save server resources and forks the server process when a request comes in.Single choice.

(0/1 Point)

- ☐ A special daemon runs on the server
- ☐ Internet Associated number Authority table
- ☐ All the mentioned
- ☐ Super-server daemon

Your answer to question 2 is wrong. Correct answers: Super-server daemon

3..... is a process implementing a specific service on behalf of clients.Single choice.

(1/1 Point)

- ☐ Dispatcher
- ☐ All the mentioned
- ☐ Server
- ☐ Requests

Correct answers: Server

4.A single client/server may suffer fromSingle choice.

(0/1 Point)

- ☐ All the mentioned.
- ☐ Administrative scalability.
- ☐ Heterogeneous scalability.
- ☐ Size scalability.

Your answer to question 4 is wrong. Correct answers: Size scalability.

5.The REST architecture is considered aSingle choice.

(1/1 Point)

- ☐ Object-based architecture
- ☐ Layered architecture
- ☐ Resource based architecture
- ☐ Event based architecture

Correct answers: Resource based architecture

6.Which of the following is not an advantage of distributed systems?Single choice.

(1/1 Point)

- ☐ All the mentioned
- ☐ Scalability
- ☐ Reliability
- ☐ Resource sharing

Correct answers: Reliability

7.Which of the following is the benefit of using threads?Single choice.

(1/1 Point)

- ☐ Exploit parallelism
- ☐ All the mentioned
- ☐ Avoid I/O blocking
- ☐ Avoid process context switch

Correct answers: All the mentioned

8.Which of the following is true for synchronous client server?Single choice.

(1/1 Point)

- ☐ Server failures do not have to be handled immediately.
- ☐ All the mentioned.
- ☐ Client cannot do any other work while waiting for reply.
- ☐ The client continues without waiting for an answer from the server.

Correct answers: Client cannot do any other work while waiting for reply.

9. In which architecture, the distributed application consists of a composition of many different services? Single choice.

(0/1 Point)

- ☐ Layered architecture
- ☐ Event based architecture
- ☐ Service oriented architecture
- ☐ Resource based architecture

Your answer to question 9 is wrong. Correct answers: Service oriented architecture

10. The capability of a system to adapt to increasing service requests is called Single choice.

(1/1 Point)

- ☐ Scalability
- ☐ Reliability
- ☐ Capacity
- ☐ Tolerance

Correct answers: Scalability

11. The main goal of the distributed system is Single choice.

(1/1 Point)

- ☐ Resource sharing.
- ☐ All the mentioned.
- ☐ Scalability.
- ☐ Distribution transparency.

Correct answers: All the mentioned.

12. In persistent communication, Single choice.

(1/1 Point)

- ☐ All the mentioned.
- ☐ Communication middleware discards message when it cannot be delivered at the receiver.
- ☐ Communication middleware stores the message as long as it takes to deliver it.
- ☐ Communication middleware dispatches messages to the neighbor server.

Correct answers: Communication middleware stores the message as long as it takes to deliver it.

13. Concurrency transparency is Single choice.

(1/1 Point)

- ☐ Hide that an object may be moved to another location while in use

- ☐ Hide that an object may be shared by several independent users.
- ☐ Hide the failure and recovery of an object.
- ☐ Hide that an object may move to another location by the distribution middleware.

Correct answers: Hide that an object may be shared by several independent users.

14. Making copies of data available on processes at different machines isSingle choice.

(0/1 Point)

- ☐ Replication.
- ☐ Partition data and computations across multiple machines.
- ☐ All the mentioned.
- ☐ Relocation

Your answer to question 14 is wrong. Correct answers: Replication.

15. Remote Procedure Call is a mechanism forSingle choice.

(1/1 Point)

- ☐ Message delivery
- ☐ Message retrieving
- ☐ Message passing
- ☐ All the mentioned.

Correct answers: Message passing

16. A server that does not handle the request but passes the request to another thread or process is calledSingle choice.

(1/1 Point)

- ☐ All the mentioned
- ☐ Iterative server
- ☐ Single thread server
- ☐ Concurrent server

Correct answers: Concurrent server

17. In Grid Computing, which types of computer resources are there?Single choice.

(1/1 Point)

- ☐ Heterogeneous resources within a single administrative domain.
- ☐ Heterogeneous resources across multiple administrative domain.
- ☐ Homogenous resources within a single administrative domain.
- ☐ Homogenous resources across multiple administrative domain.

Correct answers: Heterogeneous resources across multiple administrative domain.

18.The mobile IP, home address, and care of address is used inSingle choice.

(1/1 Point)

- ☐ Peer to peer network.
- ☐ Distributed servers cluster in a LAN.
- ☐ Distributed servers in a WAN.
- ☐ All the mentioned.

Correct answers: Distributed servers in a WAN.

19.A distributed system is aSingle choice.

(1/1 Point)

- ☐ Network of independent geographically dispersed computing resources.
- ☐ Network of dependent homogenous computing resources.
- ☐ Network of independent homogenous computing resources.
- ☐ Network of dependent geographically dispersed computing resources..

Correct answers: Network of independent geographically dispersed computing resources.

20..... is used to dynamically assign a dynamic server endpoint.Single choice.

(0/1 Point)

- ☐ Internet Associated number Authority table
- ☐ Super-server
- ☐ A special daemon runs on the server
- ☐ All the mentioned

Your answer to question 20 is wrong. Correct answers: A special daemon runs on the server

21.Which of the following is used to search for a data in a node in the unstructured peer to peer network?Single choice.

(1/1 Point)

- ☐ Using Flooding search or Random walks search.
- ☐ A specific route is followed from the source to the destination.
- ☐ Using Random walks search.
- ☐ Using Flooding search.

Correct answers: Using Flooding search or Random walks search.

22..... is used to interrupt a server.Single choice.

(1/1 Point)

- ☐ All the mentioned

- ☐ Control communication
- ☐ Data communication
- ☐ No way to interrupt a server

Correct answers: Control communication

23. One of the problems of geographical scalability isSingle choice.

(1/1 Point)

- ☐ Multipoint communication.
- ☐ Latency.
- ☐ All the mentioned.
- ☐ Unreliable communication.

Correct answers: All the mentioned.

24. In the REST architecture, the resources can be added to a distributed application usingSingle choice.

(0/1 Point)

- ☐ URI
- ☐ Amazon S3
- ☐ Remote procedure call
- ☐ URL

Your answer to question 24 is wrong. Correct answers: URI

25. Location transparency isSingle choice.

(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.

Correct answers: Hide where an object is located.

26. One of the replication problem isSingle choice.

(1/1 Point)

- ☐ Consistency
- ☐ All the mentioned.
- ☐ Network latency.
- ☐ Failure

Correct answers: Consistency

27. In which architecture, the distributed application consists of a logical layering? Single choice.

(1/1 Point)

- ☐ Layered architecture
- ☐ Service oriented architecture
- ☐ Resource based architecture
- ☐ Event based architecture

Correct answers: Layered architecture

28. Access transparency is Single choice.

(1/1 Point)

- ☐ Hide that an object may be shared by several independent users.
- ☐ Hide differences in data representation and how an object is accessed.
- ☐ Hide where an object is located.
- ☐ Hide that an object is replicated.

Correct answers: Hide differences in data representation and how an object is accessed.

29. A concurrent server is Single choice.

(1/1 Point)

- ☐ All the mentioned
- ☐ A single thread server
- ☐ A multithread server
- ☐ An iterative server

Correct answers: A multithread server

30. The piratebay.com is a website for downloading torrent files, which architecture the system follows? Single choice.

(0/1 Point)

- ☐ Unstructured peer to peer
- ☐ Hybrid architecture
- ☐ Client server
- ☐ Structure peer to peer

Your answer to question 30 is wrong. Correct answers: Hybrid architecture

31. Replication transparency is Single choice.

(1/1 Point)

- ☐ Hide where an object is located.
- ☐ Hide that an object is replicated.

- ☐ Hide differences in data representation and how an object is accessed.
- ☐ Hide that an object may be shared by several independent users.

Correct answers: Hide that an object is replicated.

32.Which of the following is true for the share data space communication?Single choice.

(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.

Correct answers: Both coordinating processes temporally decoupled and referentially decoupled.

33.Relocation transparency isSingle choice.

(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 that an object may be moved to another location while in use.
- ☐ Hide the failure and recovery of an object.

Correct answers: Hide that an object may be moved to another location while in use.

34.System size scalability meansSingle choice.

(1/1 Point)

- ☐ Increasing distance between nodes.
- ☐ Decreasing number of users and/or processes.
- ☐ Increasing number of users and/or processes.
- ☐ Decreasing distance between nodes.

Correct answers: Increasing number of users and/or processes.

35.Which of the following is an example of distributed pervasive system?Single choice.

(1/1 Point)

- ☐ Cluster computing
- ☐ Sensors networks
- ☐ Grid Computing
- ☐ Cloud computing

Correct answers: Sensors networks

36.Which of the following cloud organization that provides web services and applications?Single choice.

(1/1 Point)

- ☐ Infrastructure as a Service
- ☐ Software as a Service
- ☐ Platform as a Service.
- ☐ Resources as a Service

Correct answers: Software as a Service

37.PlanetLab is an example ofSingle choice.

(0/1 Point)

- ☐ Distributed grid
- ☐ Distributed cluster
- ☐ Distributed cloud
- ☐ All the mentioned

Your answer to question 37 is wrong. Correct answers: Distributed cluster

38.Migration transparency isSingle choice.

(1/1 Point)

- ☐ Hide the failure and recovery of an object.
- ☐ Hide that an object may be moved to another location while in use
- ☐ Hide that an object may move to another location by the distribution middleware.
- ☐ Hide that an object may be shared by several independent users.

Correct answers: Hide that an object may move to another location by the distribution middleware.

39.In Cluster Computing, which types of computer resources are there?Single choice.

(1/1 Point)

- ☐ Heterogeneous resources across multiple administrative domain.
- ☐ Homogenous resources across multiple administrative domain.
- ☐ Homogenous resources within a single administrative domain.
- ☐ Heterogeneous resources within a single administrative domain.

Correct answers: Homogenous resources within a single administrative domain.

40.The file server is considered?Single choice.

(0/1 Point)

- ☐ A stateless server

- ☐ Dispatcher server
- ☐ Distributed server
- ☐ A stateful server

Your answer to question 40 is wrong. Correct answers: A stateful server

41.Failure transparency isSingle choice.

(1/1 Point)

- ☐ Hide the failure and recovery of an object.
- ☐ 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
- ☐ Hide that an object may be shared by several independent users.

Correct answers: Hide the failure and recovery of an object.

42.An iterative server isSingle choice.

(1/1 Point)

- ☐ A concurrent server
- ☐ All the mentioned
- ☐ A single thread server
- ☐ A multithread server

Correct answers: A single thread server

43.Which layer in the ISO model is responsible for process to process delivery?Single choice.

(1/1 Point)

- ☐ Transport layer
- ☐ Application layer
- ☐ Network layer
- ☐ Physical layer

Correct answers: Transport layer

44.The web server is considered?Single choice.

(0/1 Point)

- ☐ Distributed server
- ☐ A stateful server
- ☐ A stateless server
- ☐ Dispatcher server

Your answer to question 44 is wrong. Correct answers: A stateless server

45.The server which Keeps track of the status of its clients?Single choice.

(1/1 Point)

- ☐ A stateful server
- ☐ A single thread server
- ☐ A stateless server
- ☐ A multithread server

Correct answers: A stateful server

46. Concurrency transparency isSingle choice.

(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.

Correct answers: Hide that an object may be shared by several independent users.

47. In which structure, the processing nodes are organized as an overlay with specific structure?Single choice.

(0/1 Point)

- ☐ Client server
- ☐ Structured client server
- ☐ Structured Peer to peer
- ☐ Unstructured peer to peer

Your answer to question 47 is wrong. Correct answers: Structured Peer to peer

48. A server process running on a remote machine is identified bySingle choice.

(0/1 Point)

- ☐ Host IP and port number
- ☐ Endpoint or Port number
- ☐ Host IP and Process ID
- ☐ Host IP

Your answer to question 48 is wrong. Correct answers: Host IP and port number

49. Process Migration can be done in heterogeneous systems usingSingle choice.

(1/1 Point)

- ☐ Cloning
- ☐ Virtual machines

- ☐ Threads
- ☐ Context switch

Correct answers: Virtual machines

50.Geographically scalability meansSingle choice.

(1/1 Point)

- ☐ Increasing distance between nodes.
- ☐ Decreasing distance between nodes.
- ☐ Decreasing number of users and/or processes.
- ☐ Increasing number of users and/or processes.

Correct answers: Increasing distance between nodes.

51.Which of the following is an example of high-performance computing?Single choice.

(1/1 Point)

- ☐ Cluster computing
- ☐ All the mentioned
- ☐ Cloud computing
- ☐ Grid computing

Correct answers: All the mentioned

52.Which of the following is true for the event-based architecture?Single choice.

(0/1 Point)

- ☐ Both coordinating processes temporally decoupled and referentially coupled.
- ☐ Both coordinating processes temporally decoupled and referentially decoupled.
- ☐ Both coordinating processes temporally coupled and referentially decoupled.
- ☐ Both coordinating processes temporally coupled and referentially coupled.

Your answer to question 52 is wrong. Correct answers: Both coordinating processes temporally coupled and referentially coupled.

53.An architecture that moves the client query to a middle tier where a stateless design can be used is calledSingle choice.

(1/1 Point)

- ☐ Client Server Architecture
- ☐ Three tier architecture
- ☐ Peer to Peer architecture
- ☐ Stateful architecture

Correct answers: Three tier architecture

54.Which of the following cloud organizations that provides hardware resources in terms of virtual machines?Single choice.

(1/1 Point)

- ☐ Infrastructure as a Service
- ☐ Software as a Service
- ☐ Platform as a Service.
- ☐ Resources as a Service

Correct answers: Infrastructure as a Service

55.Which of the following is true for asynchronous client server?Single choice.

(1/1 Point)

- ☐ Client cannot do any other work while waiting for reply.
- ☐ The client continues without waiting for an answer from the server.
- ☐ Server failures have to be handled immediately.
- ☐ All the mentioned.

Correct answers: The client continues without waiting for an answer from the server.

56.Distribution transparency isSingle choice.

(1/1 Point)

- ☐ Access transparency.
- ☐ Failure transparency.
- ☐ All the mentioned
- ☐ Replication transparency.

Correct answers: All the mentioned

57.The skype network follows which organization?Single choice.

(0/1 Point)

- ☐ Client server
- ☐ Unstructured peer to peer
- ☐ Structured peer to peer
- ☐ Hierarchical peer to peer

Your answer to question 57 is wrong. Correct answers: Hierarchical peer to peer

58.The server which never keep accurate information about the status of a client after having handled a request is calledSingle choice.

(1/1 Point)

- ☐ A stateful server

- ☐ A stateless server
- ☐ A single thread server
- ☐ A multithread server

Correct answers: A stateless server

59.A client server application is consideredSingle choice.

(0/1 Point)

- ☐ All the mentioned
- ☐ Horizontal distribution
- ☐ Vertical distribution
- ☐ Non of the mentioned

Your answer to question 59 is wrong. Correct answers: Vertical distribution

60..... is used to statically assign server ports.Single choice.

(1/1 Point)

- ☐ A special daemon runs on the server
- ☐ Internet Associated number Authority table
- ☐ Super-server daemon
- ☐ All the mentioned

Correct answers: Internet Associated number Authority table

61.In transient communication,Single choice.

(1/1 Point)

- ☐ Communication middleware stores the message as long as it takes to deliver it.
- ☐ All the mentioned.
- ☐ Communication middleware discards message when it cannot be delivered at the receiver.
- ☐ Communication middleware dispatches messages to the neighbor server.

Correct answers: Communication middleware discards message when it cannot be delivered at the receiver.

62.Which of the following is true for synchronous client server?Single choice.

(1/1 Point)

- ☐ All the mentioned.
- ☐ Client and server have to be active at time of communication.
- ☐ Client issues request and blocks until it receives reply.
- ☐ Server failures have to be handled immediately.

Correct answers: All the mentioned.

63. Administrative scalability meansSingle choice.

(1/1 Point)

- ☐ Increasing number of administrative domains.
- ☐ Decreasing heterogeneous machines.
- ☐ Decreasing number of administrative domains.
- ☐ Increasing heterogeneous machines.

Correct answers: Increasing number of administrative domains.

64. Which of the following is true for the electronic mail system?Single choice.

(1/1 Point)

- ☐ Both coordinating processes temporally coupled and referentially coupled.
- ☐ Both coordinating processes temporally coupled and referentially decoupled.
- ☐ Both coordinating processes temporally decoupled and referentially decoupled.
- ☐ Both coordinating processes temporally decoupled and referentially coupled.

Correct answers: Both coordinating processes temporally decoupled and referentially coupled.

65. What are the characteristics of code migration?Single choice.

(0/1 Point)

- ☐ All the mentioned
- ☐ Execute the entire process on a different machine
- ☐ Transfer part of entire data
- ☐ Transfer computation rather than the data

Your answer to question 65 is wrong. Correct answers: Transfer computation rather than the data

66. A peer to peer is consideredSingle choice.

(1/1 Point)

- ☐ Vertical distribution
- ☐ All the mentioned
- ☐ Non of the mentioned
- ☐ Horizontal distribution

Correct answers: Horizontal distribution

67. What are the characteristics of process migration?Single choice.

(0/1 Point)

- ☐ Execute the entire process on a different machine
- ☐ All the mentioned

- ☐ Transfer part of entire data
- ☐ Transfer computation rather than the data

Your answer to question 67 is wrong. Correct answers: Execute the entire process on a different machine

68.Cloud computing is a type ofSingle choice.

(1/1 Point)

- ☐ Pervasive computing.
- ☐ Distributed information system.
- ☐ All the mentioned.
- ☐ High-performance computing.

Correct answers: High-performance computing.

69.On of the scalability techniques isSingle choice.

(1/1 Point)

- ☐ Partition data and computations across multiple machines.
- ☐ Hide communication latencies.
- ☐ Replication.
- ☐ All the mentioned.

Correct answers: All the mentioned.

70.The TCP Handoff protocol is used inSingle choice.

(0/1 Point)

- ☐ All the mentioned.
- ☐ Distributed servers in a WAN.
- ☐ Distributed servers cluster in a LAN.
- ☐ Peer to peer network.

Your answer to question 70 is wrong. Correct answers: Distributed servers cluster in a LAN.

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