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Flag question

Out of the following, what are the characteristics of a distributed system?

Select one or more:

- a. Restricted access
- b. Distributed memory
- c. Shared memory
- d. Message passing

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stion

Which one of the following is NOT a disadvantage of introducing a new tier in a system?

Select one:

- a. Less vulnerability for packet sniffing attacks
- b. Increased complexity in the system
- c. Increasing communication overhead
- d. Higher possibility of message transmission errors

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question

Select an application that may require UDP protocol over TCP protocol?

Select one:

- a. A file transfer application
- b. A cloud based human resource management system
- c. A chat application
- d. An audio streaming application that may require performance over reliability

Online Exams

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question

Which of the following is the purpose of having a welcoming socket in TCP?

Select one:

- a. To block server communication until a new client is created
- b. To manage multiple client connections simultaneously
- c. To close a client connection
- d. To make the initial connection with each new client

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Question **5**

Not yet answered

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Flag question

In a TCP application, why is multithreading necessary?

Select one:

- a. To enable fault tolerance
- b. To enable secure communication
- c. To allow the server to simultaneously communicate with multiple clients
- d. To ensure the reliability in communication

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Question **5**

Not yet answered

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Flag question

In a TCP application, why is multithreading necessary?

Select one:

- a. To ensure the reliability in communication
- b. To enable fault tolerance
- c. To enable secure communication
- d. To allow the server to simultaneously communicate with multiple clients

Next page

Online Exams

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What is the reason for using Inputstream/Oputputstream classes in Java for socket communication?

Select one:

- a. As reading from/writing to sockets is similar to reading from/writing to a file. Both as input/output operations.
- b. They are used to ensure secure communication
- c. These classes are used to allow peer to peer communication
- d. These classes are used to facilitate multithreading

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question

What is the main reason for using the same DatagramSocket class both at the client and server side of a UDP application?

Select one or more:

- [ ] a. The same socket class is used to ensure secure communication
- [ ] b. The usage of the same socket class can make the implementation simpler
- [x] c. The same socket class is used to handle multiple connections simultaneously
- [x] d. There's no continuous connection, so the identical sockets can be used to facilitate communication at either end

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question

How can a TCP server handle the sudden crash of a client gracefully and close the server side socket?

Select one:

- a. Setting the server side socket variable to null
- b. Closing the server side socket as well
- c. Handling the IO Exception from the server side and closing the server side socket
- d. By handling the Socket Exception at the server side and closing the respective socket at the server side

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In a TCP socket application that is used to update a weather status by gathering data from sensors. The sensors update the weather object simultaneously. How can the server object can be protected from integrity errors that can occur from race conditions?

Select one or more:

- a. Using synchronized methods to update the weather object
- b. Using synchronized blocks in code blocks that does shared updates
- c. Do all the updates on the weather object at the client
- d. Using an encrypted channel to handle the communication
- e. Using a multi-threaded application to do the updates

Next page

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10

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question

Which of the following is NOT a function of the skeletons and stubs in RMI?

Select one:

- a. Enable the client to call a remote function without having to manually handle socket communication
- b. Marshalling, which converts the method parameters in the remote function into a transferable format
- c. Ensuring the security of the messages transferred
- d. Serialization, which converts the objects that needs to be transferred to the remote function, into a transferable format

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ag question

Which of the following combination of object activation are NOT appropriate?

Select one or more:

- [ ] a. Remote SMS Server object, where each message may create an SMS object - Per call instantiation
- [ ] b. Remote timetable object, where each client share the same timetable - Per call instantiation
- [x] c. Remote Weather object, where each client sensors share the same object - Singleton instantiation
- [x] d. Remote Supermarket basket object, where each client may use a basket - Per client instantiation
- [ ] e. Remote credit card object, where each client has a creditcard object created - Singleton instantiation

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Question **12**

Not yet answered

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Flag question

Which of the following are NOT examples of heterogeneity in distributed systems?

Select one or more:

- [x] a. Multiple users accessing the system concurrently
- [x] b. Messages being encrypted
- [ ] c. Multiple hardware platforms being used by the servers
- [ ] d. Multiple encryption algorithms used by different parts of the system
- [ ] e. Multiple Operating systems being used by the clients

Next pa

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Question **13**

Not yet answered

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Flag question

Which of the following is NOT a strength of RMI?

RMI in java API

Select one:

- a. Platform interoperability
- b. Language interoperability

java to java comminucation

- c. Enables the secure access of system resources through policy files
- d. Can use the object oriented principles and design patterns in Java

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Question 14

Not yet answered

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Flag question

Which of the following remote method mechanism are NOT appropriate to the given scenario?

Select one or more:

- a. Getting an alert if the temperature of a server room exceeds a certain limit - Asynchronous remote callback
- b. Validating the login details of a user - Asynchronous Remote callback
- c. Validating the credit card details of a transaction - Blocking
- d. Checking the share market price periodically - Message Polling
- e. Checking the humidity of a remote weather station periodically - Asynchronous Callback

message polling

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et answered
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g question

Which of the following are NOT applications of Asynchronous calls (both local and remote)?

Select one or more:

- [ ] a. Reduce the waiting time of a client application due to a long running database read.
- [ ] b. Having remote Asynchronous calls in a web application to reduce the amount of data exchanged and to im
- [x] c. Block the client application till a remote validation is made
- [ ] d. Having local asynchronous calls to maintain UI responsiveness
- [x] e. Execute a function that doesn't consume much computational time, to create a thread and return the cont main thread in the server

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Which of the following are NOT benefits of using message queues?

Select one or more:

- a. Enable tight coupling between components
- b. Manage transactions in the business logic
- c. Persistence of messages
- d. Prioritize messages based on the requirement
- e. Reduce the scalability of applications

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1 9 17 25 33 41 49 57

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Which of the following is NOT a component of the JMS specification?

Select one:

- a. Message registry
- b. JMS Session
- c. Message Producer
- d. Message consumer
- e. Reduce the scalability of applications

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Quiz

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Question **18**

Not yet answered

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Flag question

Which of the following is NOT a potential application of JMS?

Select one:

- a. A monitoring application that allows asynchronous messaging
- b. A highly scalable enterprise application with multiple components implemented with different techologies
- c. A client server Intranet java application
- d. An online message forum

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Which one of the following is NOT a feature of CORBA?

Select one or more:

- a. Using a naming service to register and locate remote components
- b. Interface definition file to declare a remote interface
- c. Using a message service for asynchronous messaging
- d. IIOP protocol to exchange messages across components developed using different technologies

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In a student management system where student details are stored and subject details are stored. Which of the following are NOT valid EJBs?

Select one or more:

- [x] a. Student - Message driven bean
- [ ] b. StudentManagement - Stateful session bean
- [ ] c. Student - Entity bean
- [ ] d. Subject - Entity bean
- [x] e. SubjectManagement - Entity bean

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In a student management system, some student related operations may take a long time and therefore n
fashion. Which of the following EJB would be appropriate for that?

Select one:

- a. StudentAdministration - Stateful session bean
- b. Student - Entity bean
- c. StudentOperations - Message Driven bean
- d. StudentManagement - Stateless session bean

long running asynchronuos

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Question 22

Not yet answered

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Flag question

Which of the following is NOT provided by most application servers to the application developers?

Select one:

- a. Managing the EJB object created
- b. Load balancing
- c. Session management
- d. Implementation of the business logic

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Question **23**

Not yet answered

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Flag question

Which of the following are NOT a result of the prevalence of Distributed systems?

Select one or more:

- a. Traditional pharmacies that dispense medicine
- b. Online job listing web sites
- c. Outsourcing of the IT projects to global teams.
- d. Mobile app based taxi services
- e. Postal service being used to send utility bills

Question **25**

Not yet answered

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Flag question

Which line of the following xml file has a well-formed error (ignore the line numbers) ?

```
1. <?xml version = "1.0"  encoding="ISO-8859-1"?>
2. <!– my first XML doc –>
3. <courselist xmlns="http://www.university.com"  >
4. <course>
5. <lecturer>
6. <firstname> H.T. </Firstname>
7. <lastname> Shen </lastname>
8. </lecturer>
9. <title>SOA<title>
10. < code>INFS3204</code>
11. </course>
12. </courselist>
```

Select one or more:

- [x] a. Line 9
- [ ] b. Line 2
- [ ] c. There is no error
- [ ] d. Line 5
- [x] e. Line 6

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g question

Which of the following is a scenario where a Stateful session bean is more appropriate to be used than a Stateless session bean?

Select one:

- a. Online bookshop where a user can order multiple books
- b. Online supermarket where the user count needs to be taken at a given time
- c. A payment gateway where each transaction is handled independently of each other
- d. A SMS service where each message needs to be processed independently

Question **25**

Not yet answered

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Flag question

Which line of the following xml file has a well-formed error (ignore the line numbers) ?

1. <?xml version = "1.0" encoding="ISO-8859-1"?>
2. <!-- my first XML doc -->
3. <courselist xmlns="http://www.university.com" >
4. <course>
5. <lecturer>
6. <firstname> H.T. </Firstname>
7. <lastname> Shen </lastname>
8. </lecturer>
9. <title>SOA<title>
10. < code>INFS3204</code>
11. </course>
12. </courselist>

Select one or more:

- a. There is no error
- b. Line 2
- c. Line 5
- d. Line 9
- e. Line 6

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Question **26**

Not yet answered

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Flag question

What is the purpose of using namespaces in XML?

Select one:

- a. Enable unique identification of each xml element
- b. Enable checking for well-formedness
- c. Enable transforming the xml into an html
- d. Enable checking for validity

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Which of the following instance will throw a validation error, provided the given schema definition segment?

```
<xs:element name="StockPurchase" minOccurs="1"  maxOccurs="10"/>
```

Select one or more:

- a. No StockPurchase elements in the xml file that uses the above schema definition segment
- b. 10 StockPurchase elements in the xml file that uses the above schema definition segment
- c. 7 StockPurchase elements in the xml file that uses the above schema definition segment
- d. 1 StockPurchase element in the xml file that uses the above schema definition segment
- e. 12 StockPurchase elements in the xml file that uses the above schema definition segment

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```
<?xml-stylesheet type="text/xsl" href="stocks.xsl"?>
<investments>
    <item type="stock" exch="nyse" symbol="ZCHM" company="Zack corp.
    <item type="stock" exch="nasdaq" symbol="ZFFX" company="Zaffss Inc
    <item type="stock" exch="nasdaq" symbol="FMMS" company="Freeman
</investments>
```

Select one:

a. <xsl:for-each select="investments/item[@type='stock']">
<stock>
<stock_price>
<xsl:value-of select="@price"/>
</stock_price>
</stock>
</xsl:for-each>

b. <xsl:for-each select="investments/item[@type='price']">
<stock>
<stock_price>
<xsl:value-of select="@stock"/>
</stock_price>
</stock>
</xsl:for-each>

c. <xsl:for-each select="investments/item[@type='stock']">
<stock>
<stock_price>
<xsl:value-of select="price"/>
</stock_price>
</stock>
</xsl:for-each>

d. <xsl:for-each select=
</stock>
<stock_price>
<xsl:value-of select="price"
</stock_price>
</stock>
</xsl:for-each>
</stock>
</xsl:for-each>
</stock_price>
</stock_price>

Question **31**

Not yet answered

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Flag question

Which of the following are NOT characteristics of SOA?

Select one or more:

- [ ] a. Composable
- [x] b. Uses vendor specific message formats
- [ ] c. Reusable
- [x] d. Tight coupling
- [ ] e. Standard based

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lag question

Which of the following are NOT appropriate scenarios to use SOA?

Select one or more:

- a. A client server web application that may use third party APIs
- b. A standalone GUI application
- c. A set of service that is currently used by a web client but may be used by other types of clients in the future
- d. A web api that may be used by multiple types of clients
- e. A client and server intranet application that needs high performance over interoperability

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lag question

Which of the following technologies has NOT been greatly advanced with the advent of SOA and web services?

Select one:

- a. Cloud computing
- b. Supercomputers
- c. Web APIs
- d. Messaging middleware

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Flag question

Which of the following are NOT appropriate REST urls and HTTP methods for the given operations?

Select one or more:

- a. Add user - HTTP GET - http://wso2.com/general/dbusers/user/1/sam
- b. Remove user - HTTP DELETE - http://wso2.com/general/dbusers/user/1
- c. Update user - HTTP PUT - http://wso2.com/general/dbusers/user/1/nimal
- d. Get user details - HTTP POST - http://wso2.com/general/dbusers/user/1
- e. Add user - HTTP POST - http://wso2.com/general/dbusers/user/1/sam

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Question **34**

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Flag question

Which of the following are NOT reasons for distributing the computing?

Select one or more:

- [x] a. Controlling the access to a system
- [ ] b. Economies of scale
- [ ] c. Increasing the availability
- [x] d. Parallelization using multi-core architecture
- [ ] e. Functional separation

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Question **36**

Not yet answered

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Flag question

Which of the following is NOT a reason to do enterprise integration?

Select one:

- a. Having a simple homogeneous client server application that is unlikely to ch
- b. Have to use products from multiple vendors
- c. Need to integrated legacy systems with newer products and APIs
- d. Need to support multiple message formats
- e. Diverse business requirements that may change in the future

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Flag question

Suppose there is a service that needs to query the stock price of a company from multiple stock services deployed around the world at different stock exchanges. What is the enterprise integration pattern that is suitable for this?

Select one:

- a. Aggregator pattern gather data from multiple sources and combine it into a single response
- b. None of the above
- c. Process manager pattern
- d. Polling pattern
- e. Enricher pattern

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Question **38**

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Suppose you want to access a weather service and want to add some additional location information from a data source to the response. Which of the following integration pattern appropriate for this purpose?

Select one:

- a. Content based routing
- b. None of the above
- c. Aggregator pattern
- d. Enricher pattern
- e. Process manager pattern

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question

Which of the following is NOT a reason to do enterprise integration?

Select one:

- a. Diverse business requirements that may change in the future
- b. Having a simple homogeneous client server application that is unlikely to change in the future
- c. Have to use products from multiple vendors
- d. Need to support multiple message formats
- e. Need to integrated legacy systems with newer products and APIs

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Question 40

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Flag question

Suppose an organization is managing 50 web services related to healthcare industry. Which of the following is NOT a reason to involve in the governance of the services?

Select one:

- a. Maintaining documentation of web services
- b. Integrating multiple services from different platforms
- c. Managing different versions of web services
- d. Show who is responsible for managing each service
- e. Monitor the usage and any errors caused by the services

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- Invoking Web services, using <invoke>
- Waiting for the request, using <receive>
- Manipulating data variables, using <assign>
- Indicating faults and exceptions, using <throw>, etc.

Question **39**

Not yet answered

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Flag question

In developing a hotel reservation system, which of the following statements are NOT true, in a BPEL process?

Select one or more:

- [ ] a. 'flow' operations are used to simultaneously call the taxi and room reservation services
- [ ] b. 'switch' operation is used to select the payment option based on user preference
- [x] c. 'switch' operation is used to call the external services branching
- [x] d. 'sequence' operations are used to simultaneously call the taxi and room reservation services flow
- [ ] e. 'invoke' operation is used to call the payment service

- Sequence (<sequence>) for defining a set of activities that will be invoked in an ordered sequence
- Flow (<flow>) for defining a set of activities that will be invoked in parallel
- Case-switch construct (<switch>) for implementing branches
- While (<while>) for defining loops, etc.

Next page

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What are the usages of Docker or other container frameworks in the Microservices architecture?

Select one or more:

- a. Docker allows a virtual machine to be run when deploying a service docker use container not VM
- b. Docker facilitates the discovery of services
- c. Docker allows the services to be scaled up or down independently
- d. Docker allows a service to be deployed independently of other services

Next page

Question **41**

Not yet answered

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Flag question

Which of the following are NOT features of cloud computing?

Select one or more:

- a. Auto-scaling of resources
- b. Multi-tenancy
- c. Usage of desktop clients traditional approaches
- d. Virtualization of resources
- e. Manual administration of servers traditional approaches

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on

Identify the INCORRECT type of Cloud to be used for each scenario given?

Select one or more:

- a. An organization that wants to have some systems hosted locally but wants to use the public cloud when the load goes bey limit - Hybrid cloud
- b. A bank that doesn't want to save their data in another country or with another party. - Private cloud
- c. A group of universities that needs to allow cloud access only to its members - Community cloud
- d. The defense ministry that wants to store their data locally but wants to use cloud computing - Public cloud
- e. A startup company that wants to use cloud based virtual servers - Hybrid cloud

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Flag question

Which of the following are NOT the appropriate types of cloud to be used for the given scenarios?

Select one or more:

- [x] a. Usage of a cloud based word processing application - SAAS
- [ ] b. Usage of a cloud based data server - Software as a Service (SAAS)
- [ ] c. Usage of cloud based application server - Platform as a servicce (PAAS)
- [x] d. Usage of a cloud based GPU for training a Machine learning algorithm - Infrastructure as a service (IAAS)
- [ ] e. Usage of a cloud based human resource management software - Platform as a service (PAAS)

SaaS

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Question **44**

Not yet answered

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Flag question

Which of the following definition is NOT correct regarding cloud computing?

Select one:

- a. Under-provisioning - Not having enough resources in the cloud
- b. Horizontal scaling - Adding more CPU or memory to an existing virtual server Vertical
- c. Multi-tenancy - Having multiple users sharing the same set of resources in the cloud, without interfering each other
- d. Over-provisioning - Allocating more resources in the cloud than required

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Question **45**

Not yet answered

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Flag question

Which of the following is NOT a feature of distributed systems?

Select one or more:

- a. Message passing
- b. Resource sharing
- c. Having a global clock
- d. Distributed failures
- e. Having a global state

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Online Exams

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Question **46**

Not yet answered

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Flag question

Which of the following is NOT correct regarding OpEx (operational expenditure) and CapEx (Capital expenditure) in different types of clouds?

Select one:

- a. Hybrid clouds have both CapEx and OpEx
- b. Public clouds don't have CapEx but have OpEx
- c. Private clouds don't have CapEx
- d. Community clouds have both CapEx and OpEx

Next page

Question **47**

Not yet answered

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Flag question

Which of the following is NOT a weakness of the monolithic architecture?

Select one:

- a. When changing a service, the entire application may have to be redeployed
- b. Having one unstable service can affect the reliability of the entire application
- c. Can scale-up or down at the service level
- d. Can become overly complex over time

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Question **48**

Not yet answered

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Flag question

Which of the following is NOT a design principle of microservices?

Select one:

- a. Align each service with business requirements
- b. Having services that have broad scope
- c. Having fine grained services with limited scope
- d. Having single responsibility for each service

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Which of the following is NOT a weakness of the monolithic architecture?

Select one:

- a. Having one unstable service can affect the reliability of the entire application
- b. When changing a service, the entire application may have to be redeployed
- c. Can become overly complex over time
- d. Can scale-up or down at the service level

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Which of the following is NOT correct regarding OpEx (operational expenditure) and CapEx (Capital expenditure) in different types of clouds?

Select one:

- a. Public clouds don't have CapEx but have OpEx
- b. Hybrid clouds have both CapEx and OpEx
- c. Community clouds have both CapEx and OpEx
- d. Private clouds don't have CapEx

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Online Exams

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Flag question

Which of the following is NOT an appropriate error handling pattern in Microservice architecture?

Select one:

- a. Circuit breaker pattern
- b. Process manager pattern
- c. Bulkhead pattern
- d. Timeout pattern

Question **46**

Not yet answered

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Flag question

Which of the following is NOT correct regarding OpEx (Operational expenditure) and CapEx (Capital expenditure) in different types of clouds?

Select one:

- a. Public clouds don't have CapEx but have OpEx
- b. Hybrid clouds have both CapEx and OpEx
- c. Community clouds have both CapEx and OpEx
- d. Private clouds don't have CapEx

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Question **50**

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Flag question

What are the usages of Docker or other container frameworks in the Microservices architecture?

Select one or more:

- a. Docker allows a virtual machine to be run when deploying a service
- b. Docker facilitates the discovery of services
- c. Docker allows a service to be deployed independently of other services
- d. Docker allows the services to be scaled up or down independently

What are the uses of Kubernes or any other microservices orchestration framework in the microservices architecture?

Select one or more:

- [x] a. Self healing or restarting service instances if there's a service failure
- [ ] b. Version control of services
- [ ] c. Creating virtual machines to deploy services
- [x] d. Automatically scaling up and down the services, based on user demand
- [ ] e. Managing the data storage of the application

Question 52

Not yet answered

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Flag question

Based on the following attributes, what is an appropriate metric to measure availability?

MTTF - Mean time to failure

MTTR - Mean time to recover

MTBF - Mean time between failures

Select one:

- a. MTTF / MTTR
- b. MTTR / MTTF
- c. MTTF / (MTTF + MTTR)
- d. MTTR / (MTTF + MTTR)

Question **49**

Not yet answered

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Flag question

Which of the following is NOT an appropriate error handling pattern in Microservice architecture?

Select one:

- a. Circuit breaker pattern
- b. Bulkhead pattern
- c. Process manager pattern
- d. Timeout pattern

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Question 53

Not yet answered

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Flag question

Which of the following is the valid reason for having a two phase or three phase commit instead of one phase commits in a distributed system?

Select one:

- a. In one phase commit, there's no way to allow secure messaging
- b. In one phase commit, there's no way for the coordinator to know whether a process has failed
- c. In one phase commit, there's no way to allow auto scaling
- d. In one phase commit, there's no way to manage load balancing

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1 9 17 25 33 41 49 57

Which of the following are NOT correct statements when it comes to fault tolerance?

Select one or more:

- [ ] a. Reconfiguration is where a faulty component is eliminated from the system and restoring the syste
- [ ] b. Crash failures account for scenarios where the faulty process gives correct output until it crashes
- [x] c. In a k fault tolerant system, k+1 replicas of processes may be necessary to account for byzantine fai
- [x] d. Fault masking is the process of detecting the faults
- [ ] e. Byzantine failures account for scenarios where the faulty process may give incorrect outputs before

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Question **53**

Not yet answered

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Flag question

Which of the following is the valid reason for having a two phase or three phase commit instead of one phase commits in a distributed system?

Select one:

- a. In one phase commit, there's no way to allow auto scaling
- b. In one phase commit, there's no way to manage load balancing
- c. In one phase commit, there's no way to allow secure messaging
- d. In one phase commit, there's no way for the coordinator to know whether a process has failed

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Quiz navig

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Which of the following is NOT a correct statement with respect to failure classification?

Select one:

- a. Crash failure refers to scenarios where the server halts but it works correct until it halts
- b. Omission failures is where the server fails to respond
- c. Timing failures refer to scenarios where the server does not respond within an accepted ti
- d. Arbitraty failures refer to scenarios where the server responds with arbitrary responses
- e. Response failure is where a server may not respond at all

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Which of the following systems have the appropriate software architectural styles?

Select one or more:

- [x] a. Online exam web site - Layered architecture
- [ ] b. Online gaming platform - Data Centered architecture
- [ ] c. Fire alarm system - Component based architecture
- [x] d. E commerce web site - Layered architecture
- [x] e. Teaching material management system - Shared Data space architecture

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Which of the following are NOT examples of redundancy being used to provide fault tolerance?

Select one or more:

- [ ] a. Using error detection codes to identify message errors
- [ ] b. Using backup servers to account for abrupt server failures
- [ ] c. Using timeouts and re-attempts of requests to account for response failures
- [x] d. Using encryption to ensure secure messaging
- [x] e. Using authentication to prevent authorized access

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Question **58**

Not yet answered

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Flag question

Which one of the following systems DOES NOT have the appropriate system architecture ?

Select one or more:

- [x] a. Distributed Image sharing platform without any single point of failure - Client Server architecture
- [x] b. Online taxi app - Client server architecture
- [x] c. Single player distributed mobile game - Peer to Peer Architecture
- [ ] d. Online book purchasing system - Client server architecture

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lag question

What of the following is NOT an advantage of having a separate business logic tier in a share market system?

Select one:

- a. Ability to handle miscalculations of computation in servers due to electro magnetic radiation.
- b. Parallelize the computation of large datasets
- c. Sequentially compute a complex scientific computation
- d. Ability to handle abrupt server failures.
- e. Load balancing depending on the number of transactions per second.

Question 59

Not yet answered

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Flag question

Which of the following is NOT an advantage of the event based architecture?

Select one:

- a. Asynchronous communication
- b. Tight coupling between components
- c. High scalability
- d. Facilitate publisher subscriber messaging