

- When importing and exporting data into salesforce, which 2 statements are true?  
Developer and Developer Pro Sandboxes have different storage limits  
Data Import Wizard is a client application provided by Salesforce
- A developer writes a single trigger on the Account object on the after insert and after update events. A workflow rule modifies a field every time an Account is created or updated. How many times will the trigger fire if a new Account is inserted, assuming no other automation logic is implemented on the Account?  
**2**

- A developer must provide custom user interfaces when users edit a Contact in either Salesforce Classic or Lightning Experience. What should the developer use to override the Contact's Edit button and provide this functionality?  
**A Visualforce page in Salesforce Classic and a Lightning component in Lightning Experience**

- Which three operations affect the number of times a trigger can fire?

**Lightning Flows, Roll Up Summary Fields, Workflow Rules**

- A developer identifies the following triggers on the Expense\_\_\_\_object:

deleteExpense,

applyDefaultsToExpense,

validateExpenseUpdate:

The triggers process before delete, before insert, and before update events respectively.

Which two techniques should the developer implement to ensure trigger best practices are followed?

Choose 2 answers

**Unify all three triggers in a single trigger on the Expense object that includes all events.**

**Create helper classes to execute the appropriate logic when a record is saved.**

- A developer must write an Apex method that will be called from a Lightning component. The method may delete an Account stored in the accountRec variable. Which method should a developer use to ensure only users that should be able to delete Accounts can successfully perform deletions?

**Schema.sObjectType.Account.isDeleteable()**

7. A workflow updates the value of a custom field for an existing Account. How can a developer access the updated custom field value from a trigger?

By writing an After Update trigger and accessing the field value from Trigger.Old (before update – trigger.new)

8. The values 'High', 'Medium', and 'Low' are identified as common values for multiple picklists across different objects. What is an approach a developer can take to streamline maintenance of the picklists and their values, while also restricting the values to the ones mentioned above?

Create the Picklist on each object and use a Global Picklist Value Set containing the values.

9. An Apex method, getAccounts, that returns a List of Accounts given a searchTerm, is available for Lightning Web components to use. What is the correct definition of a Lightning Web component property that uses the getaccounts method?

```
@wire(getAccounts, {searchTerm: '$searchTerm'})
```

```
accountList;
```

10. Which code in a Visualforce page and/or controller might present a security vulnerability?

```
<apex:outputText escape="false" value="(16CurrentPage.parameters.userInput)" />
```

11. Which two are phases in the Aura application event framework?

Default, Bubble

12. Instead of sending emails to support personnel directly from Salesforce, Universal Containers wants to notify an external system in the event that an unhandled exception occurs. What is the appropriate publish/subscribe logic to meet this requirement?

Publish the error event using the Eventbus.publish () method and have the external system subscribe to the event using CometD.

13. A developer is writing tests for a class and needs to insert records to validate functionality. Which annotation method should be used to create records for every method in the test class?

@TestSetup

14. How should a custom user interface be provided when a user edits an Account in Lightning Experience?

Override the Account's Edit button with a Lightning Component

15. A developer receives an error when trying to call a global server-side method using the @RemoteAction decorator. How can the developer resolve the error?

Add static to the server side method signature

16. Example 2, Example 3

17. What is an example of a polymorphic lookup field in Salesforce?

The WhatId field on the standard Event object

18. What are three considerations when using the @InvocableMethod annotation in Apex? Choose 3 answers

A method using the @InvocableMethod annotation can be declared as Public or Global.

Only one method using the @InvocableMethod annotation can be defined per Apex class.

A method using the @InvocableMethod annotation must be declared as static.

19. Which statement should be used to allow some of the records in a list of records to be inserted if others fail to be inserted?

Database.insert(records, false)

20. Which process automation should be used to send an outbound message without using an Apex code?

Workflow Rule

21. When using SalesforceDX, what does a developer need to enable to create and manage scratch orgs?

Dev Hub

22. What is a fundamental difference between a Master-Detail relationship and a Lookup relationship?

A Master-Detail relationship detail record inherits the sharing and security of its master record.

23. What will be the output in the debug log in the event of a QueryException during a call to the aQuery method in

the following example?

```
class myClass {  
    class CustomException extends QueryException ()  
    public static Account aQuery() {  
        Account theAccount;  
        try {  
            system.debug ("Querying Accounts.");  
            theAccount= [SELECT Id FROM Account WHERE CreatedDate > TODAY];  
        }  
        catch (CustomException ex) {  
            system.debug Custon Exception.");  
        }  
        catch (QueryException ex){  
            system.debug('Query Exception.");  
        }  
        finally {  
            system.debug ("Done.");  
        }  
        return theAccount;  
    }  
}
```

**Querying Accounts. Query Exception. Done**

24. Given the following Apex statement:

```
Account myAccount = [SELECT Id, Name FROM Account];
```

What occurs when more than one Account is returned by the SOQL query?

**An unhandled exception is thrown and the code terminates.**

25. Which two statements are true about Getter and Setter methods as they relate to Visualforce?

Choose 2 answers

**Getter methods can pass a value from a controller to a page.**

**Setter methods can pass a value from a controller to a page.**

**26. Which exception type cannot be caught?**

**LimitException**

**27. What is the value of the Trigger.old context variable in a Before Insert trigger?**

**null**

**28. What does the Lightning Component framework provide to developers?**

**Prebuilt components that can be reused**

**29. Universal Containers hires a developer to build a custom search page to help users find the Accounts they want.**

**Users will be able to search on Name, Description, and a custom comments field.**

**Which consideration should the developer be aware of when deciding between SOQL and SOSL?**

**Choose 2 answers**

**SOQL is able to return more records.**

**SOSL is faster for text searches.**

**30. Which two characteristics are true for Aura component events?**

**Choose 2 answers**

**The event propagates to every owner in the containment hierarchy.**

**Depending on the current propagation phase ,Calling event.stoppropagation() may not stop the event propagation**

**31. Universal Containers wants to assess the advantages of declarative development versus programmatic customization for specific use cases in its Salesforce implementation.**

**What are two characteristics of declarative development over programmatic customization?**

**Choose 2 answers**

**Declarative development can be done using the Setup UI.**

**Declarative development does not require Apex test classes.**

**32. What should be used to create scratch orgs?**

**Salesforce CLI**

**33. If Apex code executes inside the execute () method of an Apex class when implementing the Batchable interface,**

**which two statement are true regarding governor limits?**

**Choose 2 answers**

**The Apex governor limits are reset for each iteration of the execute() method.**

**The Apex governor limits might be higher due to the asynchronous nature of the transaction.**

**34. Which Salesforce feature allows a developer to see when a user last logged in to Salesforce if real-time**

**notification is not required?**

**Event Monitoring Log**

**35. Which three statements are accurate about debug logs?**

**Choose 3 answers**

**Manage users or view all data permission.**

**Debug Log levels are cumulative, where FINE log level includes all events logged at the DEBUG, INFO, WARN, and ERROR levels.**

**Amount of information logged in the debug log can be controlled by the log levels.**

**36. A developer created a Visualforce page and custom controller to display the account type field as shown below.**

**Custom controller code:**

```
public with sharing class customCtrir{  
    private Account theAccount;  
    public String actType;  
    public customCerit (){  
        the Account (SELECT Id, Type FROM Account
```

```
WHERE Id:ApexPages.currentPage().getParameters().get("id")]=  
actType theAccount.Type:  
}  
}
```

Visualforce page snippet:

The Account Type is (actType)

The value of the account type field is not being displayed correctly on the page. Assuming the custom controller is

properly referenced on the Visualforce page, what should the developer do to correct the problem?

Add a getter method for the actType attribute.

37. A Lightning component has a wired property, searchResults, that stores a list of Opportunities.

Which definition of the Apex method, to which the searchResults property is wired, should be used?

@Aura Enabled (cacheable=true)

public static List<Opportunity> search (String term) {/implementation /}

38. Which two statements accurately represent the MVC framework implementation in Salesforce?

Choose 2 answers

Validation rules enforce business rules and represent the Controller (C) part of the MVC framework

Records deleted or updated by triggers represent the Model (M) part of the MVC framework.

39. A developer needs to confirm that a Contact trigger works correctly without changing the organization's data.

What should the developer do to test the Contact trigger?

Use the Test menu on the Developer Console to run all test classes for the Contact trigger.

**40. A developer needs to implement the functionality for a service agent to gather multiple pieces of information from**

**a customer in order to send a replacement credit card.**

**Which automation tool meets these requirements?**

**Flow Builder**

41. How can a developer check the test coverage of active process builder and flow before deploying them in a change set?

**Tooling API**

42. A developer must create a ShippingCalculator class that cannot be instantiated and must include a working default implementation of a calculate method, that sub-classes can override.

What is the correct implementation of the ShippingCalculator class?

```
public abstract class shippingcalculator {  
    public virtual void calculate () / *implementation*/
```

43. A developer must create an Apex class, ContactController, that a Lightning component can use to search for

Contact records. Users of the Lightning component should only be able to search for Contact records to which they have access.

Which two will restrict the records correctly?

```
public inherited sharing class ContactController  
public with sharing class ContactController
```

44. What are three characteristics of change set deployments?

Choose 3 answers

Change set can be used in one-way, single transaction.

Change set requires a deployment connection.

Change sets can be used in related organizations.

45. Which statement generates a list of Leads and Contacts that have a field with the phrase 'ACME'?

```
List<List <sObject>> searchList = (FIND "*ACME*" IN ALL FIELDS RETURNING Contact, Lead);
```

46. A developer wrote Apex code that calls out to an external system.

How should a developer write the test to provide test coverage?

**Write a class that implements the HTTPCalloutMock interface.**

47. A developer creates a new Apex trigger with a helper class, and writes a test class that only exercises 95% coverage of the new Apex helper class.

Change Set deployment to production fails with the test coverage warning:

"Test coverage of selected Apex Trigger is 0%, at least 1% test coverage is required."

What should the developer do to successfully deploy the new Apex trigger and helper class?

**Create a test class and methods to cover the Apex trigger**

48. A custom picklist field, Food Preference, exists on a custom object. The picklist contains the following

options: "Vegan", "Kosher", "No Preference". The developer must ensure a value is populated every time a record is created or updated.

What is the most efficient way to ensure a value is selected every time a record is saved?

**Mark the field as Required on the field definition.**

49. A developer has the following requirements:

Calculate the total amount on an Order.

Calculate the line amount for each Line Item based on quantity selected and price.

Move Line Items to a different Order if a Line Item is not in stock.

Which relationship implementation supports these requirements?

**Line Item has a Master-Detail field to Order and the Master can be re-parented.**

**Order has a Master-Detail field to Line Item and there can be many Line Items per Order.**

50. Since Aura application events follow the traditional publish-subscribe model, which method is used to fire an event?

**Fire()**

51. Cloud Kicks Fitness, an ISV Salesforce partner, is developing a managed package application. One of the application modules allows the user to calculate body fat using the Apex class, BodyFat, and its method, calculateBodyFat(). The product owner wants to ensure this method is accessible by the consumer of the namespace. Which approach should a developer take to ensure calculateBodyFat() is accessible outside the package namespace?

**Declare the class and method using the global access modifier.**

52. A Primary Id\_c custom field exists on the Candidate\_c custom object. The field is used to store each candidate's id number and is marked as Unique in the schema definition. As part of a data enrichment process, Universal Containers has a CSV file that contains updated data for all candidates in the system. The file contains each Candidate's primary id as a data point. Universal Containers wants to upload this information into Salesforce, while ensuring all data rows are correctly mapped to a candidate in the system. Which technique should the developer implement to streamline the data upload?

**Update the primaryid\_c field definition to mark it as an External Id**

53. What are two characteristics related to formulas?

Choose 2 answers

**Formulas are calculated at runtime and are not stored in the database.**  
**Formulas can reference values in related objects.**

54. What is the result of the following code snippet?

```
public void dowork(Account acct) {  
    for (Integer i = 0; i < 200; i++) {  
        insert acct;  
    }  
}
```

**0 Accounts are inserted**

55. A recursive transaction is initiated by a DML statement creating records for these two objects:  
. Accounts  
Contacts

The Account trigger hits a stack depth of 16.

Which statement is true regarding the outcome of the transaction?

**The transaction succeeds and all the changes are committed to the database.**

56. Which two types of process automation can be used to calculate the shipping cost for an Order when placed and apply percentage of the shipping cost to some of the related Order Products?

**Flow builder**  
**Process builder**

57. developer wants to mark each Account in a ListAccounts as either Active or Inactive based on the LastModifiedDate field value being more than 90 days.

**A for loop, with an if/else statement inside**

58. Which aspect of apex programming limited due to multitenancy?

**The number of records returned from database queries**

59. what are the two ways that a controller and extension can be specified for a custom object named Notice on a visual force pages ?

`apex:page controller="Account extensions-myControllerExtension"  
apex:page standardController="Account extensions-myControllerExtension"`

60. Universal Containers recently transitioned from Classic Lightning Experience. One of its business processes requires certain values from the Opportunity object to be sent via an HTTP REST callout to its external order management system based on a user-initiated action on the Opportunity detail page. Example values are as follows:

Name . Amount

- Account Which two methods should the developer implement to fulfill the business requirement?

Create a Lightning component that performs the HTTP REST callout, and use a Lightning Action to expose the component on the Opportunity detail page

Create a Visualforce page that performs the HTTP REST callout, and use a Visualforce quick action to expose the component on the Opportunity detail page

61. With annotation exposes an apex class as a restful web service?

`@RestResource`

62. Universal Containers implemented a private sharing model for the Account object. A custom Account search tool was developed with Apex to help sales representatives find accounts that match multiple criteria they specify.

Since its release, users of the tool report they can see Accounts they do not own.

What should the developer use to enforce sharing permissions for the currently logged-in user while using the custom search tool?

Use the `with sharing` keyword on the class declaration

63. Which three code lines are required to create a Lightning component on a Visualforce page?

`<apex:includeLightning/>  
$Lightning.use (Missed)  
$Lightning.createComponent`

64. A team of many developers work in their own individual orgs that have the same configuration as the production org.

Developer Sandbox

65. What are three capabilities of the `citng` requires tag when loading JavaScript resources in Aura components?

One-time loading for duplicate scripts

Specifying loading order

Loading scripts in parallel.

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- Universal Containers wants Opportunities to no longer be editable when reaching the Closed/Won stage. How should a developer accomplish this?

Use a validation rule.

- Which Salesforce org has a complete duplicate copy of the production org including data and configuration?

Full Sandbox

- The following Apex method is part of the Contact Service class that is called from a trigger:

```
public static void setBusinessUnitToEMEA (Contact thisContact) { thisContact. Business  
Unit_c='EMEA': update thisContact;
```

How should the developer modify the code to ensure best practices are met?

```
public static void setBusiness UnitToEMEA (List<Contact> contacts) {  
for Contact thisContact: contacts){  
thisContact. Business Unit_C = "EMEA":  
}  
update contacts;  
}
```

- A developer has the following requirements:

- Calculate the total amount on an Order.
- Calculate the line amount for each Line Item based on quantity selected and price.
- Move Line Items to a different Order if a Line Item is not in stock.

Which relationship implementation supports these requirements?

Line Item has a Master-Detail field to Order and the Master can be re-parented.

- A developer is implementing an Apex class for a financial system. Within the class, the variables 'creditAmount' and 'debitAmount' should not be able to change once a value is assigned.

In which two ways can the developer declare the variables to ensure their value can only be assigned one time?

Choose 2 answers

- Use the final keyword and assign its value when declaring the variable.

B. Use the final keyword and assign its value in the class constructor.

6. Which action may cause triggers to fire?

Updates to feed items

7. Universal Containers wants a list button to display a Visualforce page that allows users to edit multiple records.

Which Visualforce feature supports this requirement?

recordSetVar page attribute

8. A developer wants to invoke an outbound message when a record meets a specific criteria.

Which three features satisfy this use case?

Choose 3 answers

B. Process Builder can be used to check the record criteria and then call Apex code.

C. Workflows can be used to check the record criteria and send an outbound message.

E. Approval Process has the capability to check the record criteria and send an outbound message without Apex code.

9. A developer has an Apex controller for a Visualforce page that takes an ID as a URL parameter.

How should the developer prevent a cross site scripting vulnerability?

`ApexPages.currentPage().getParameters().get("url_param").escapeHtml4()`

10. In the following example, which sharing context will myMethod execute when it is invoked?

`public Class myClass { public void myMethod() { / implementation */ }`

Sharing rules will be inherited from the calling context.

11. A developer needs to have records with specific field values in order to test a new Apex class.

What should the developer do to ensure the data is available to the test?

Use `Test.loadData()` and reference a static resource.

12. Instead of sending emails to support personnel directly from Salesforce, Universal Containers wants to notify an external system in the event that an unhandled exception occurs.

What is the appropriate publish/subscribe logic to meet this requirement?

Publish the error event using the `Eventbus.publish()` method and have the external system subscribe to the event using CometD.

13. Which exception type cannot be caught?

`LimitException`

14. The Job Application\_c custom object has a field that is a Master-Detail relationship to the Contact object, where the Contact object is the Master. As part of a feature implementation, a

developer needs to retrieve a list containing all Contact records where the related Account Industry is Technology while also retrieving the contact's Job Application\_c records.

Based on the object's relationships, what is the most efficient statement to retrieve the list of contacts?

[SELECT id, (SELECT Id FROM Job\_Applications\_r FROM Contact WHERE Account.Industry = 'Technology');

15. Given the following Anonymous Block:

```
List<Case> casesToUpdate = new List<Case>(); for (Case thisCase: [SELECT id, Status FROM Case LIMIT 50000]){
    thisCase.Status = 'Working';
    casesToUpdate.add(thisCase);
}
try{
    Database.update (casesToUpdate, false);
} catch(Exception e){
    System.debug (e.getMessage());
}
```

What should a developer consider for an environment that has over 10.000 Case records?

The transaction will fail due to exceeding the governor limit.

16. A team of developers is working on a source-driven project that allows them to work independently, with many different org configurations. Which type of Salesforce orgs should they use for their development?

Scratch orgs

17. Which statement describes the execution order when triggers are associated to the same object and event?

Triggers are executed in the order they are created.

18. A Next Best Action strategy uses an Enhance Element that invokes an Apex method to determine a discount level for a Contact, based on a number of factors.

What is the correct definition of the Apex method?

@InvocableMethod

```
global static List<List<Recommendation>> getLevel (List<ContactWrapper> input) {
/*implementation*/ }
```

19. A developer wants to import 500 Opportunity records into a sandbox.

Why should the developer choose to use Data Loader instead of Data Import Wizard?

Data Import Wizard does not support Opportunities.

20. Which two are best practices when it comes to Aura component and application event handling?

Choose 2 answers

Handle low-level events in the event handler and re-fire them as higher-level events.

Reuse the event logic in a component bundle, by putting the logic in the helper.

21. A custom picklist field, Food Preference\_, exists on a custom object. The picklist contains the following options: "Vegan, Kosher", 'No Preference. The developer must ensure a value is populated every time a record is created or updated.

Mark the field as Required on the field definition.

22. What are three benefits of using declarative customizations over code?

Choose 3 answers

Declarative customizations do not require user testing

Declarative customizations automatically update with each Salesforce release.

Declarative customizations generally require less maintenance.

23. What are two ways a developer can get the status of an enqueued job for a class that implements the queueable interface?

Choose 2 answers

Query the AsyncApexJob object

View the Apex Jobs Page

24. What is the result of the following code?

Account a = new Account();

Database.insert(a, false);

The record will not be created and no error will be reported.

25. How many Accounts will be inserted by the following block of code?

for(Integer i = 0; i < 500; i++)  
 Account a = new Account();

a.Name = 'New ' + i;  
 Database.insert(a);

0

26. Which three steps allow a custom Scalable Vector Graphic (SVG) to be included in a Lightning web component?

Import the static resource and provide a variable for it in JavaScript.

Upload the SVG as a static resource.

Reference the import in the HTML template.

27. An Opportunity needs to have an amount rolled up from a custom object that is not in a Master/Detail relationship. How can this be achieved?

**Write a trigger on the child object and use an aggregate function to sum the amount for all related child objects under the Opportunity.**

28. When a user edits the Postal Code on an Account, a custom Account text field named timezone must be updated based on the values in a PostalCodeToTimezone e custom object.

**Build an account custom trigger.**

29. A developer created these three Rollup Summary fields in the custom object., Project :

Total Timesheets\_c

Total Approved Timesheets\_ Total Rejected Timesheet\_c

The developer is asked to create a new field that shows the ratio between rejected and approved timesheets for a given project.

What are two benefits of choosing a formula field instead of an Apex trigger to fulfill the Choose 2 answers

**A test class that validates the formula field is needed for deployment.**

**A formula field will calculate the value retroactively for existing records.**

30. An org has an existing Flow that creates an Opportunity with an Update Records element. A developer must update the Flow to also create a Contact and store the created Contact's ID on the Opportunity.Which update should the developer make in the Flow?

**Add a new Create Records element.**

31. Universal Containers (UC) wants to lower its shipping cost while making the shipping process more efficient. Distribution Officer advises UC to implement global addresses to allow multiple Accounts to share a default pickup address. The developer is tasked to create the supporting object and relationship for this business requirement and uses the Setup Menu to create a custom object called "Global Address".The Which field should the developer add to create the most efficient model that supports the business need?

**Add a Lookup field on the Account object to the Global Address object.**

32. What should a developer use to obtain the Id and Name of all the Leads, Accounts, and Contacts that have company name "Universal Containers"?

**FIND 'Universal Containers IN Name Fields RETURNING lead(id, name), accountid, name), contact(id, name)**

33. Flow Builder uses an Apex Action to provide additional information about multiple Contacts, stored in a custom class, Contact Info. Which is the correct definition of the Apex method that gets the additional information?

```
@InvocableMethod (label='Additional Info's  
public static List<ContactInfo> getInfo(List<id> contactIds)  
{implementation /}
```

34. How does the Lightning Component framework help developers implement solutions faster?

By providing device-awareness for mobile and desktops

35. developer has to identify a method in an Apex class that performs resource intensive actions in memory iterating over the result set of a SOQL statement on the account. The method also performs a DML statement to save the changes to the database. Which two techniques should the developer implement as a best practice to ensure transaction control and avoid exceeding governor limits?

Use the System.Limit class to monitor the current CPU governor limit consumption.  
Use the Database.Savepoint method to enforce database integrity.

36. A developer considers

```
Boolean is180R  
integer x:  
String theString 'Hello':  
if (is180R == false as theString 'Hello') {  
    3 eleif (LOK true as theString 'Hello') {  
        x = 2;  
    } else if (is180R - null as theString 'Hello') {  
    } else {
```

the following snippet of code:

Based on this code, what is the value of x?

4

37. Which action causes a before trigger to fire by default for Accounts?

Importing data using the Data Loader and the Bulk API

38. Which three statements are true regarding custom exceptions in Apex?

Choose 3 answers

A custom exception class can implement one or many interfaces.

A custom exception class name must end with "Exception"

A custom exception class must extend the system Exception class.

39. developer created a new trigger that inserts Task when a new Lead is created. After deploying to production, an outside integration that reads task records is periodically reporting errors.

which change should the developer make to ensure the integration is not affected with minimal impact to business logic?

Use the Database method with allOrNone set to False.

40. Which two characteristics are true for Aura component events?

Choose 2 answers

The event propagates to every owner in the containment hierarchy.

If a container component needs to handle a component event add a handleFacets="capture" attribute to its handler

41. Which two operations can be performed using a formula field?

Choose 2 answers

Displaying an Image based on the Opportunity Amount

Calculating a score on a Lead based on the information from another field

42. A developer must implement a CheckPayment Processor class that provides check processing payment capabilities that adhere to what is defined for payments in the Payment Processor interface.

```
public interface Payment Processor { void pay (Decimal amount);  
}
```

Which is the correct implementation to use the Payment Processor interface class?

```
public class CheckPayment Processor implements Payment Processor {  
    public void pay (Decimal amount) {}  
}
```

43. A developer has an integer variable called maxAttempts. The developer needs to ensure that once maxAttempts is initialized, it preserves its value for the length of the Apex transaction; while being able to share the variable's state between trigger executions. How should the developer declare maxAttempts to meet these requirements?

Declare maxAttempts as a constant using the static and final keywords.

44. Which process automation should be used to send an outbound message without using Apex code?

Workflow Rule

45. Which Apex class contains methods to return the amount of resources that have been used for a particular governor, such as the number of DML statements?

Limits

46. While working in a sandbox, an Apex test fails when run in the Test Framework. However, running the Apex tant logic in the Execute Anonymous window succeeds with no exceptions or errors. Why did the method fail in the sandbox test framework but succeed in the Developer Console?

The test method relies on existing data in the sandbox.

47. Which scenario is valid for execution by unit tests?

Set the created date of a record using a system method.

48. A developer wants to get access to the standard price book in the org while writing a test dass that covers an OpportunityLineItem trigger.

Which method allows access to the price book?

Use Test.getStandard PricebookId() to get the standard price book ID.

49. Which three data types can a SOQL query return?

Integer

sObject

List

50. A developer has two custom controller extensions where each has a save() method.

Which save() method will be called for the following Visualforce page?

```
<apex:page standardController="Account", extensions="ExtensionA, Extension">
<apex:commandButton action="save()" value="Save"/>
</apex:page>
```

standard controller save()

51. Universal Containers wants to notify an external system, in the event that an unhandled exception occurs, by publishing a custom event using Apex. What is the appropriate publish/subscribe logic to meet this requirement?

Publish the error event using the Eventbus.publish () method and have the external system subscribe to the event using CometD.

52. A developer is tasked to perform a security review of the Contact Search Apex class that exists in the system. Within the class, the developer identifies the following method as a security threat:

```
List Contact performsearch(String lastName){
```

```
return Database.query('SELECT id, FirstName, LastName FROM Contact WHERE LastName Like
%'+lastName+'');
```

}

What are two ways the developer can update the method to prevent a SOQL injection attack?

Choose 2 answers

Use variable binding and replace the dynamic query with a static SOQL.

Use the escapeSingleQuotes method to sanitize the parameter before its use.

53. A developer must create a Lightning component that allows users to input Contact record Information to create a Contact record, including a Salary\_c custom field. What should the developer use, along with a lightning-record-edit-form, so that Salary\_c field functions as a currency input and is only viewable and editable by users that have the correct field level permissions on Salary\_c?

```
<lightning-input-field field-name="Salary_c"></lightning-input-field>
```

54. Universal Containers stores Orders and Line Items in Salesforce. For security reasons, financial representatives are allowed to see information on the Order such as order amount, but they should not be allowed to see the Line Items on the Order. Which type of relationship should be used between Orders and Line Items?

Lookup

55. Universal Containers has an order system that uses an Order Number to identify an order for customers and service agents. Order records will be imported into Salesforce. How should the Order Number field be defined in Salesforce?

Number with External ID

56. Which Lightning code segment should be written to declare dependencies on a Lightning component, c:accountList, that is used in a Visualforce page?

```
<aura:application access="GLOBAL" extends="ltng:outApp"> <aura:dependency  
resource="c:accountList"/>  
  
</aura:application>
```

57. Universal Containers decides to use exclusively declarative development to build out a new Salesforce application. Which three options should be used to build out the database layer for the application? Choose 3 answers

Custom objects and fields

Roll-up summaries

Relationships

58. A developer must troubleshoot to pinpoint the causes of performance issues when a custom page loads in their org. Which tool should the developer use to troubleshoot?

Developer Console

59. Which aspect of Apex programming is limited due to multitenancy?

The number of records returned from database queries

60. Which Salesforce feature allows a developer to see when a user last logged in to Salesforce if real-time notification is not required?

Event Monitoring Log

61. A developer must create a Credit Card Payment class that provides an implementation of an existing Payment class.

```
public virtual class Payment {  
    public virtual void makePayment (Decimal amount) { /*implementation*/ }
```

Which is the correct implementation?

```
public class CreditCardPayment extends Payment{  
    public override void makePayment (Decimal amount){/*implementation*/}  
}
```

62. Universal Containers has a large number of custom applications that were built using a third-party JavaScript framework and exposed using Visualforce pages. The company wants to update these applications to apply styling that resembles the look and feel of Lightning Experience. What should the developer do to fulfill the business request in the quickest and most effective manner?

**Set the attribute enableLightning to true in the definition.**

63. A development team wants to use a deployment script to automatically deploy to a sandbox during their development cycles. Which two tools can they use to run a script that deploys to a sandbox?

Choose 2 answers

**VSCode**

**SFDX CLI**

**Ant Migration tool**

64. What are three ways for a developer to execute tests in an org? Choose 3 answers

**Metadata API**

**Setup Menu**

**Tooling API**

65. An Approval Process is defined in the Expense\_Item\_c object. A business rule dictates that whenever a user changes the Status to 'Submitted' on an Expense Report record, all the Expense Item\_c records related to the expense report must enter the approval process individually. Which approach should be used to ensure the business requirement is met?

**Create a Process Builder on Expense\_Report\_c with a 'Submit for Approval' action type to submit all related Expense Item\_records when the criteria is met.**

62 of 65. A custom object Trainer\_c has a lookup field to another custom object Gym\_c.

Which SOQL query will get the record for the Viridian City Gym and all its trainers?

**SELECT id, (SELECT Id FROM Trainer\_c) FROM Gym WHERE Name = 'Viridian City Gym'**

61 of 65. A developer is debugging the following code to determine why Accounts are not being created.

Account a new Account (Name = 'A');

Database.insert (a, false);

How should the code be altered to help debug the issue?

C.Collect the insert method return value in a SaveResult record.

59 of 65. A developer needs to implement a custom SOAP Web Service that is used by an external Web Application. The developer chooses to include helper methods that are not used by the Web Application in the implementation of the Web Service Class.

Which code segment shows the correct declaration of the class and methods?

C. global class Webserviceclass {  
private Boolean helperMethod (){ / implementation ... /}  
global string update Records () { / implementation ... / }

58 of 65. A developer is tasked by Universal Containers to build out a system to track the container repair process. Containers should be tracked as they move through the repair process, starting when a customer reports an issue and ending when the container is returned to the customer.

Which solution meets these business requirements while following best practices?

C. Build a customized Lightning Application using Application Events to ensure data integrity.

55 of 65. In terms of the MVC paradigm, what are two advantages of implementing the view layer of a Salesforce application using Lightning Web Component-based development over Visualforce?

Self-contained and reusable units of an application

Rich component ecosystem

51 of 65. A developer needs to create a custom button for the Account object that, when clicked, will perform a series of calculations and redirect the user to a custom Visualforce page.

Which three attributes need to be defined with values in the <apex:page> tag to accomplish this?

B. action

C. standardController

D. renderAs

50 of 65. Universal Containers uses a Master-Detail relationship and stores the availability date on each Line Item of an Order and Orders are only shipped when all of the Line Items are available..

Which method should be used to calculate the estimated ship date for an Order?

**Use a MAX Roll-Up Summary field on the latest availability date fields.**

49 of 65. What are two ways for a developer to execute tests in an org?

Choose 2 answers

**Metadata API**

**Tooling API**

44 of 65. For which three items can a trace flag be configured?

Choose 3 answers

**B. Apex Class**

**C. Apex Trigger**

**D. User**

43 of 65. A developer is creating a page that allows users to create multiple Opportunities. The developer is asked to verify the current user's default Opportunity record type, and set certain default values based on the record type before inserting the record.

How can the developer find the current user's default record type?

**A. Use Opportunity.SObjectType.getDescribe().getRecord TypeInfos() to get a list of record types, and iterate through them until isDefaultRecord TypeMapping() is true.**

42 of 65. A developer writes a trigger on the Account object on the before update event that increments a count field. A workflow rule also increments the count field every time that an Account is created or updated. The field update in the workflow rule is configured to not re-evaluate workflow rules. What is the value of the count field if an Account is inserted with an initial value of zero, assuming no other automation logic is implemented

on the Account?

**2**

40 of 65. A developer wants to mark each Account in a List<Account> as either Active or Inactive based on the LastModifiedDate field value being more than 90 days.

**C. A for loop, with an if/else statement inside.**

39 of 65. Refer to the following code that runs in an Execute Anonymous block:

```
for (List<Lead> theseLeads: [SELECT LastName, Company, Email FROM Lead LIMIT 20000])(  
    thisLead.Email = assignGenericEmail (thisLead.LastName, thisLead.Company);  
  
    for (Lead thisLead: theseLeads) {  
  
        if(thisLead.Email == null)  
  
            Database.Update (theseLeads, false);
```

In an environment where the full result set is returned, what is a possible outcome of this code?

**The transaction will succeed and the full result set changes will be committed to the database.**

37 of 65. A developer needs to create a baseline set of data (Accounts, Contacts, Products, Assets) for an entire suite of tests allowing them to test independent requirements various types of Salesforce Cases.

Which approach can efficiently generate the required data for each unit test?

**D. Use @TestSetup with a void method**

36 of 65. What can be developed using the Lightning Component framework?

**B. Single-page web apps**

35 of 65. Universal Containers (UC) uses a custom object called Vendor. The Vendor custom object has a Master-Detail relationship with the standard Account object. Based on some internal discussions, the UC administrator tried to change the Master-Detail relationship to a Lookup relationship but was able to do so.

What is a possible reason that this change was not permitted?

**C. The Account records contain Vendor roll-up summary fields.**

34 of 65. A developer must create a DrawList class that provides capabilities defined in the Sortable and Drawable interfaces.

```
public interface Sortable{  
    void sort ();  
}  
  
public interface Drawable {  
    void draw();  
}
```

Which is the correct implementation?

A.

```
public class DrawList extends Sortable, Drawable {  
  
    public void sort() {  
        //implementation  
    }  
  
    public void draw() {  
        //implementation  
    }  
}
```

33 of 65. While writing an Apex class that creates Accounts, a developer wants to make sure that all required fields are handled properly.

Which approach should the developer use to be sure that the Apex class works correctly without adding or changing data in the org?

**Run the code in an Execute Anonymous block in the Developer Console.**

32 of 65. How should a developer write unit tests for a private method in an Apex class?

D. Use the `TestVisible` annotation.

31 of 65. A developer wants to retrieve the Contacts and Users with the email address '`dev@uc.com`'.

Which SOSL statement should the developer use?

**FIND (`dev@uc.com`) IN Email Fields RETURNING Contact (Email), User (Email)**

30 of 65. Which two events need to happen when deploying to a production org?

Choose 2 answers

A. All triggers must have some test coverage.

**All Apex code must have at least 75% test coverage.**

29 of 65. A developer is asked to create a Visualforce page that displays some Account fields as well as fields configured on the page layout for related Contacts.

How should the developer implement this request?

A. Use the `<apex:relatedList>` tag.

27 of 65. The sales management team at Universal Containers requires that the Lead Source field of the Lead record be populated when a Lead is converted.

What should be used to ensure that a user populates the Lead Source field prior to converting a Lead?

**A. Validation Rule**

26 of 65. What is a fundamental difference between a Master-Detail relationship and a Lookup relationship?

**A. A Master-Detail relationship detail record inherits the sharing and security of its master record.**

24 of 65. A developer must modify the following code snippet to prevent the number of SOQL queries issued from exceeding the platform governor limit.

```
public without sharing class Opportunityservice{
```

```
    public static List<OpportunityLineItem> getOpportunity Products (Set<Id> opportunityIds) {
```

```
        List<OpportunityLineItem> oppLineItems = new List<OpportunityLineItem>();
```

```
        for (Id thisOppId: opportunityIds) { oppLineItems.addAll([Select Id FROM OpportunityLineItem WHERE OpportunityId= :thisOppid]);
```

```
    return oppLineItems;
```

The above method might be called during a trigger execution via a Lightning component.

Which technique should be implemented to avoid reaching the governor limit?

**B. Use the system.Limits.getQueries () method to ensure the number of queries is less than 100.**

21 of 65. Universal Containers wants to back up all of the data and attachments in its Salesforce org once a month.

Which approach should a developer use to meet this requirement?

**A. Define a Data Export scheduled job.**

19 of 65.Which code displays the contents of a Visualforce page as a PDF?

**B. <apex:page renderas="pdf">**

17 of 65.A custom Visualforce controller calls the ApexPages.addMessage() method, but no messages are rendering on the page.

Which component should be added to the Visualforce page to display the message?

- A. <apex: pageMessages />

16 of 65. A company has been adding data to Salesforce and has not done a good job of limiting the creation of duplicate Lead records. The developer is considering writing an Apex process to identify duplicates and merge the records together.

Which two statements are valid considerations when using merge?

- C. Merge is supported with accounts, contacts, and leads.

D. The merge method allows up to three records with the same sObject type to be merged into one record.

15 of 65. A developer has a single custom controller class that works with a Visualforce Wizard to support creating and editing multiple sObjects. The wizard accepts data from user inputs across multiple Visualforce pages and from a parameter on the initial URL.

Which three statements are useful inside the unit test to effectively test the custom controller?

Choose 3 answers

- A. ApexPages.currentPage().getParameters().put('input', 'TestValue');
- B. Test.setCurrentPage(pageRef);
- C. String nextPage= controller.save().getUrl();

14 of 65.Which two statements are true about Getter and Setter methods as they relate to Visualforce?

Choose 2 answers

- B. Getter methods pass values from a controller to a page.
- C. A corresponding Setter method is required for each Getter method.

10 of 65. Assuming that 'name' is a String obtained by an <apex: inputText> tag on a Visualforce page, which two SOQL queries performed are safe from SOQL injection?

```
string query = 'SELECT Id FROM Account WHERE Name LIKE \'%' + String.escapeSingleQuotes(name) + '%\' ;
```

```
String query = '%' + name + '%' ;
```

```
List<Account> results= (SELECT Id FROM Account WHERE Name LIKE :query);
```

5 of 65. Given the following code snippet, that is part of a custom controller for a Visualforce page:

```
public void update Contact (Contact this contact) {  
  
    thisContact.IsActive_c = false;  
  
    Calculator  
  
    update thisContact;  
  
    catch (Exception e) {  
  
        String errorMessage = 'An error occurred while updating the Contact. e.getMessage()' ;  
        ApexPages.addmessage (new ApexPages.message (ApexPages.severity. FATAL, errorMessage));  
    }  
}
```

In which two ways can the try/catch be enclosed to enforce object and field-level permissions and prevent the DML statement from being executed if the current logged-in user does not have the appropriate level of access?

Choose 2 answers

Use if (this contact.OwnerIdUserInfo.getUserId())

D. Use if (Schema.sObjectType.Contact.isUpdatable ())

4 of 65. A developer needs to prevent the creation of Request\_c records when certain conditions exist in the system. A RequestLogic class exists that checks the conditions.

What is the correct implementation?

```
trigger RequestTrigger on Request__c (before insert) {  
  
    RequestLogic.validateRecords (trigger.new);  
}
```

3 of 65. Which three Salesforce resources can be accessed from a Lightning web component?

Choose 3 answers

Content asset files

Static resources

SVG resources

# New set

1 of 65.

Einstein Next Best Action is configured at Universal Containers to display recommendations to internal users on the Account detail page.

If the recommendation is approved, a new opportunity record and task should be generated. If the recommendation is rejected, an Apex method must be executed to perform a callout to an external system.

Which three factors should a developer keep in mind when implementing the Apex method?

Choose 3 answers

A. The method must be defined as public.

B. The method must use the @Future annotation.

C. The method must use the @Aura Enabled annotation.

D. The method must use the @invocableMethod annotation.

E. The method must be defined as static.

2 of 65. A developer creates a custom exception as shown below:

```
public class ParityException extends Exception {}
```

What are two ways the developer can fire the exception in Apex ?

Choose 2 answers

- A. **throw new ParityException();**
- B. new ParityException();
- C. new ParityException ('parity does not match');
- D. **throw new ParityException ('parity does not match');**

3 of 65. What should a developer use to fix a Lightning web component bug in a sandbox?

A. Developer Console

B. Execute Anonymous

C. Force.com IDE

**D. VS Code**

4 of 65. What is the result of the following code?

```
Account a = new Account();
```

```
Database.insert(a, false);
```

- A. **The record will not be created and no error will be reported.**
- B. The record will be created and no error will be reported.
- C. The record will not be created and an exception will be thrown.
- D. The record will be created and message will be in the debug log.

5 of 65. Which two characteristics are true for Aura component events?

Choose 2 answers

- A. Depending on the current propagation phase, calling event.stopPropagation () may not stop the event propagation.
- B. If a container component needs to handle a component event, add a includeFacets="true" attribute to its handler.
- C. The event propagates to every owner in the containment hierarchy.
- D. By default, containers can handle events thrown by components they contain.

7 of 65. The Salesforce Administrator created a custom picklist field, Account Status\_\_c, on the Account object. This picklist has possible values of "Inactive" and "Active".

As part of a new business process, management wants to ensure an opportunity record is created only for Accounts marked as "Active". A developer is asked to implement this business requirement.

Which two automation tools should be used to fulfill the business need?

Choose 2 answers

- A. Workflow Rules
- B Approval Process
- C. Process Builder
- D. Salesforce Flow

11 of 65. Universal Containers uses Service Cloud with a custom field, stage\_, on the Case object.

Management wants to send a follow-up email reminder 6 hours after the stage\_c field is set to "Waiting on Customer". The Salesforce Administrator wants to ensure the solution used is bulk safe.

Choose 2 answers

- A. Einstein Next Best Action:
- B. Record-Triggered Flow
- C. Scheduled Flow
- D. Process Builder

13 of 65. A Salesforce Administrator used Flow Builder to create a flow named "accountOnboarding". The flow must be used inside an Aura component.

Which tag should a developer use to display the flow in the component?

- A. Aura: flow
- B. aura-flow
- C. lightning: flow
- D. lightning-flow

14 of 65. Universal Containers is building a recruiting app with an Applicant object that stores information about an individual person and a Job object that represents a job. Each applicant may apply for more than one job.

What should a developer implement to represent that an applicant has applied for a job ?

- A. Lookup field from Applicant to Job
- B. Master-detail field from Applicant to Job
- C. Formula field on Applicant that references Job
- D. Junction object between Applicant and Job

15 of 65. As part of a data cleanup strategy, AW Computing wants to proactively delete associated opportunity records when the related Account is deleted.

Which automation tool should be used to meet this business requirement?

- A. Workflow Rules
- B. Record-Triggered Flow
- C. Process Builder
- D.Scheduled Job

16 of 65. A developer created this Apex trigger that calls MyClass.myStaticMethod:

trigger myTrigger on Contact (before insert)

{

    MyClass.myStaticMethod (trigger.new); }

The developer creates a test class with a test method that calls MyClass.myStaticMethod directly, resulting in 81% overall code coverage.

What happens when the developer tries to deploy the trigger and two classes to production, assuming no other code exists?

- A. The deployment passes because the Apex code has the required >75% code coverage.

- B. The deployment fails because the Apex trigger has no code coverage.
- C. The deployment fails because no assertions were made in the test method.
- D. The deployment passes because both classes and the trigger were included in the deployment.

17 of 65. A developer is asked to create a Visualforce page that lists the contacts owned by the current user. This component will be embedded in a Lightning page.

Without writing unnecessary code, which controller should be used for this purpose?

- A. Standard list controller
- B. Custom controller
- C. Lightning controller
- D. Standard controller

18 of 65. A developer created a Lightning web component called statusComponent to be inserted into the Account record page.

Which two things should the developer do to make this component available?

Choose 2 answers

- A. Add `<asterLabel>Account</asterLabel>` to the `statusComponent.js-meta.xml` file.
- B. Add `<target>lightning_RecordPage</target>` to the `statusComponent.js` file.
- C. Add `<target>lightning_RecordPage</target>` to the `statusComponent.ja-meta.xml` file.
- D. Add `<isExposed>true</isExposed>` to the `statusComponent.js-meta.xml` file.

19 of 65. Considering the following code snippet:

```
public static void insertAccounts (List<Account> theseAccounts) {  
    for (Account thisAccount: theseAccounts) {  
        if (thisAccount.website == null) {  
  
            thisAccount.website = 'https://ann.demo.com';  
        }  
    }  
    update theseAccounts;
```

}

When the code executes, a DML exception is thrown.

How should the developer modify the code to ensure exceptions are handled gracefully?

A. Implement the upsert DML statement

B. Implement Change Data Capture.

C. Remove null items from the list of Accounts.

D. Implement a try/catch block for the DML.

20 of 65. A software company uses the following objects and relationships:

- Case: to handle customer support issues
- Defect\_c: a custom object to represent known issues with the company's software
- Defect\_e: a junction object between Case and Defecte to represent that a defect is a cause of a customer issue

Case and Defect\_c have Private organization-wide defaults.

What should be done to share a specific case\_Defect\_c record with a user?

A. Share the parent Case and Defecte records.

B. Share the parent Case record.

C. Share the parent Defecte record.

D. Share the case\_Defect\_c record.

21 of 65. Universal Containers has a support process that allows users to request support from its engineering team using a custom object, Engineering Support\_c.

Users should be able to associate multiple Engineering Support\_e records to a single Opportunity record. Additionally, aggregate information about the Engineering Support\_e records should be shown on the Opportunity record.

What should a developer implement to support these requirements?

A. Master-detail field from Engineering Support to Opportunity

B. Master-detail field from Opportunity to Engineering\_Support\_\_c

C. Lookup field from Engineering Support to Opportunity

D. Lookup field from Opportunity to Engineering Support\_c

22 of 65. Universal Containers has a Visualforce page that displays a table of every Container\_c being rented by a given Account. Recently this page is failing with a view state limit because some of the customers rent over 10,000 containers.

What should a developer change about the Visualforce page to help with the page load errors?

- A. Use JavaScript remoting with SOQL Offset.
- B. Implement pagination with a StandardSetController.
- C. Implement pagination with an OffsetController.
- D. Use lazy loading and a transient List variable.

23 of 65. A developer completed modifications to a customized feature that is comprised of two elements:

- Apex trigger
- Trigger handler Apex class

What are two factors that the developer must take into account to properly deploy the modification to the production environment?

Choose 2 answers

A. Test methods must be declared with the testMethod keyword.

B. At least one line of code must be executed for the Apex trigger.

C. Apex classes must have at least 75% code coverage org-wide.

D. All methods in the test classes must use isest.

24 of 65. The following automations already exist on the Account object:

- A workflow rule that updates a field when a certain criteria is met
- A custom validation on a field
- A flow that updates related contact records

A developer created a trigger on the Account object.

What should the developer consider while testing the trigger code?

- A. The flow may be launched multiple times.
- B. Workflow rules will fire only after the trigger has committed all DML operations to the database.
- C. The trigger may fire multiple times during a transaction.**
- D. A workflow rule field update will cause the custom validation to run again.

25 of 65. A developer is tasked with performing a complex validation using Apex as part of advanced business logic. When certain criteria are met for a Purchase Order, the developer must throw custom exception.

What is the correct way for the developer to declare a class that can be used as an exception?

- A. public class Purchase Order implements Exception()
- B. public class Purchase OrderException implements Exception()
- C. public class Purchase Order extends Exception()
- D. public class Purchase OrderException extends Exception()**

26 of 65. Which two sfdx commands can be used to add testing data to a Developer sandbox?

Choose 2 answers

- A. force:data: tree: import**
- B.force:data: async:upsert
- C.force:data: object:create
- D.force:data:bulk:upsert**

27 of 65. A developer created these three Rollup Summary fields in the custom object, Project\_c.:

Total Timesheets\_\_c

Total Approved Timesheets\_\_c

Total Rejected\_Timesheet\_c

The developer is asked to create a new field that shows the ratio between rejected and approved timesheets for a given project.

What are two benefits of choosing a formula field instead of an Apex trigger to fulfill the request?

Choose 2 answers

- A. A formula field will trigger existing automation when deployed.
- B. A formula field will calculate the value retroactively for existing records.
- C. Using a formula field reduces maintenance overhead.
- D. A test class that validates the formula field is needed for deployment.

28 of 65.What should a developer use to script the deployment and unit test execution as part of continuous integration?

- A. Salesforce CLI
- B. Execute Anonymous
- C. Developer Console
- D. VS Code

29 of 65. A developer has a requirement to write Apex code to update a large number of account records on a nightly basis. The system administrator needs to be able to schedule the class to run after business hours on an as-needed basis.

Which class definition should be used to successfully implement this requirement?

- A. global inherited sharing class ProcessAccount Processor implements Database.  
Batchable<sObject>, Schedulable
- B. global inherited sharing class ProcessAccount Processor implements  
Database.Batchable<sObject>
- C. global inherited sharing class Process Account Processor implements Queueable
- D. global inherited sharing class ProcessAccount Processor implements Schedulable

30 of 65.A developer created a trigger on the Account object and wants to test if the trigger is properly bulkified. The developer team decided that the

trigger should be tested with 200 account records with unique names.

What two things should be done to create the test data within the unit test with the least amount of code?

Choose 2 answers

- A. Use the BisTest (isParallel=true) annotation in the test class.
- B. Use the @isTest (seeAllData=true) annotation in the test class.

C. Use Test.loadData to populate data in your test methods.

D. Create a static resource containing test data.

31 of 65. AW Computing (AWC) handles orders in Salesforce and stores its product inventory in a field, Inventory\_e, on a custom object, Product\_c. When an order for a Product\_c is placed, the Inventory\_c field is reduced by the quantity of the order using an Apex trigger.

```
public void reduce Inventory (Id prold, Integer qty) {  
    Integer newInventoryAmt = getNewInventoryAmt(prodid, quy),  
    Product e p = new Product_c (Id = prodid, Inventory = newInventoryAmt);  
    update p;  
  
    // code goes here  
  
}
```

AWC wants the real-time inventory reduction for a product to be sent to many of its external systems, including some future systems the company is currently planning.

What should a developer add to the code at the placeholder to meet these requirements?

A.InventoryReductionEvent\_e ev = new InventoryReductionEvent\_e (ProductId\_\_c= prodid,  
Reduction\_c = qty);  
EventBus.publish (ev);

B.InventoryReductionEvent\_c ev = new InventoryReductionEvent\_c (Productie = prodid, duction\_c  
= qty);  
insert ev;

C.InventoryReductionEvent\_c ev = new InventoryReductionEvent ProductId\_\_prodid, Reduction\_\_  
= qey);  
EventBus publish (ev);

32 of 65. What are two use cases for executing Anonymous Apex code?

Choose 2 answers

- A. To schedule an Apex class to run periodically
- B. To add unit test code coverage to an org.
- C. To run a batch Apex class to update all Contacts
- D. To delete 15,000 inactive Accounts in a single transaction after a deployment.

33 of 65. Refer to the following Apex code:

```
Integer x = 0;  
do {  
    x = 1;  
    x++;  
} while (x < 1);  
System.debug (x);
```

What is the value of x when it is written to the debug log?

A. 0

B. 1

C.2

D. 3

34 of 65. Cloud Kicks has a multi-screen flow that its call center agents use when handling inbound service desk calls.

At one of the steps in the flow, the agents should be presented with a list of order numbers and dates that are retrieved from an external order management system in real time and displayed on the screen.

What should a developer use to satisfy this requirement?

- A. An Apex REST class
- B. An outbound message
- C. An invocable method
- D. An Apex controller

35 of 65. A developer is creating an app that contains multiple Lightning web components.

One of the child components is used for navigation purposes. When a user clicks a button called Next in the child component, the parent component must be alerted so it can navigate to the next page.

How should this be accomplished?

- A. Create a custom event.
- B. Fire a notification.
- C. Update a property on the parent.
- D. Call a method in the Apex controller.

36 of 65. A Developer Edition org has five existing accounts. A developer wants to add 10 more accounts for testing purposes.

The following code is executed in the Developer Console using the Execute Anonymous window:

```
Account myaccount = new Account (Name = 'MyAccount');
```

```
insert myAccount;
```

```
Integer x = 1;
```

```
List<Account> newAccounts = new List<Account>();
```

```
do (
```

```
Account acct = new Account (Name = 'New Account  
newAccounts.add(acct);
```

```
while (x < 10);
```

How many total accounts will be in the org after this code is executed?

A. 5

B. 6

C. 10

D. 15

37 of 65. An org tracks customer orders on an Order object and the line items of an Order on the Line Item object. The Line Item object has a Master/Detail relationship to the Order object. A developer has a requirement to calculate the order amount on an Order and the line amount on each Line Item based on quantity and price.

What is the correct implementation?

A. Implement the line amount as a numeric formula field and the order amount as a roll-up summary field.

B. Write a single before trigger on the Line Item that calculates the item amount and updates the order amount on the Order.

C. Implement the line amount as a currency field and the order amount as a SUM formula field.

D. Write a process on the Line Item that calculates the item amount and order amount and updates the fields on the Line Item

38 of 65. A Salesforce Administrator is creating a record-triggered flow. When certain criteria are met, the flow must call an Apex method to execute a complex validation involving several types of objects.

When creating the Apex method, which annotation should a developer use to ensure the method

can be used within the flow?

A. @AuraEnabled

B. @future

C. **InvocableMethod**

D. RemoteAction

39 of 65. A developer is building custom search functionality that uses SOSL to search account and contact records that match search terms provided by the end user. The feature is exposed through a Lightning web component, and the end user is able to provide a list of terms to search.

Consider the following code snippet:

```
@AuraEnabled
```

```
public static List<List<sobject>> searchTerms (List<String> termList) {  
    List<List<sobject>> result = new List<List<sObject>>();
```

```
    for (String term: termList) {
```

```
        result.addAll([FIND iter IN ALL FIELDS RETURNING Account (Name), Contact (FirstName,  
        LastName))];
```

```
    return result;
```

What is the maximum number of search terms the end user can provide to successfully execute the search without exceeding a governor

limit?

A. 20

**B. 150**

C. 200

D. 2,000

40 of 65. The following code snippet is executed by a Lightning web component in an environment with more than 2,000 lead records:

@AuraEnabled

```
public void static updateleads () {
```

```
for (Lead thisLead: [SELECT Origin_ FROM Lead)){
```

```
    thislead. Leadsource= thisLead.Origin;
```

```
    update thislead;
```

Which governor limit will likely be exceeded within the Apex transaction?

A. Total number of records retrieved by SOQL queries

B. Total number of records processed as a result of DML statements

C. Total number of DML statements issued

D. Total number of SOQL queries issued

41 of 65. A developer receives an error when trying to call a global server-side method using the @remoteAction decorator.

How can the developer resolve the error?

A. Change the function signature to be private static.

B. Add static to the server-side method signature.

C. Decorate the server-side method with (static-true).

D. Decorate the server-side method with (static-false).

42 of 65. The OrderHelper class is a utility class that contains business logic for processing orders. Consider the following code snippet:

```
public class without sharing OrderHelper {  
    //code implementation
```

A developer needs to create a constant named DELIVERY MULTIPLIER with a value of 4.15. The value of the constant should not change at any time in the code.

How should the developer declare the DELIVERY\_MULTIPLIER constant to meet the business objectives?

A.constant decimal plIER = 4.15z B.O static final decimal DELIVERY FIDL \* Sigma \* R = 4.15 ;

B.**static final decimal DELIVERY\_MULTIPLIER = 4.15;**

C. decimal DELIVERY MULTIPLIER = 4.15;

D. static decimal DELIVERY MULTIPLIER = 4.15;

44 of 65. A developer created a child Lightning web component nested inside a parent Lightning web component. The parent component needs to pass a string value to the child component.

In which two ways can this be accomplished?

Choose 2 answers

A. The parent component can invoke a method in the child component.

B. The parent component can use the Apex controller class to send data to the child component.

C. **The parent component can use a public property to pass the data to the child component.**

D. **The parent component can use a custom event to pass the data to the child component.**

45 of 65. A developer created a custom order management app that uses an Apex class. The order is represented by an Order object and an OrderItem object that has a master-detail relationship to Order. During order processing, an order may be split into multiple orders.

What should a developer do to allow their code to move some existing OrderItem records to a new Order record?

A. **Select the Allow reparenting option on the master-detail relationship.**

B. Add without sharing to the Apex class declaration.

C. Change the master-detail relationship to an external lookup relationship.

D. Create a junction object between OrderItem and Order.

46 of 65. Which two settings must be defined in order to update a record of a junction object?

Choose 2 answers

- A. Read/Write access on the primary relationship
- B. Read/Write access on the secondary relationship
- C. Read/Write access on the junction object
- D. Read access on the primary relationship

48 of 65. A developer is creating a Lightning web component to show a list of sales records.

The Sales Representative user should be able to see the commission field on each record. The Sales Assistant user should be able to see all fields on the record except the commission field.

How should this be enforced so that the component works for both users without showing any errors?

- A. Use WITH SECURITY ENFORCED in the SOQL that fetches the data for the component.
- B. Use Lightning Locker Service to enforce sharing rules and field-level security.
- C. Use Security.stripInaccessible to remove fields inaccessible to the current user.
- D. Use Lightning Data Service to get the collection of sales records.

50 of 65. Which scenario is valid for execution by unit tests?

- A. Set the created date of a record using a system method.
- B. Load data from a remote site with a callout.
- C. Generate a Visualforce PDF with getContentAsPDF () .
- D. Execute anonymous Apex as a different user.

51 of 65. A developer created a weather app that contains multiple Lightning web components.

One of the components, called Toggle, has a toggle for Fahrenheit or Celsius units. Another component, called Temperature, displays the current temperature in the unit selected in the Toggle component.

When user toggles from Fahrenheit to Celsius or vice versa in the Toggle component, the information must be sent to the Temperature

component so the temperature can be converted and displayed.

What is the recommended way to accomplish this?

A. The Toggle component should call a method in the Temperature component.

B. Create a custom event to handle the communication between components.

C. Use Lightning Message Service to communicate between the components.

D. Use an application event to communicate between the components.

52 of 65. A developer wrote the following two classes:

```
public with sharing class StatusFetcher {  
    private Boolean active = true;  
    private Boolean isActive () { return active; }  
  
    public with sharing class Calculator {  
  
        public void doCalculations () { StatusFetcher sfetcher = new StatusFetcher();  
            if (sfetcher.isActive()) {  
                // do calculations here  
            }  
        }  
    }  
}
```

The StatusFetcher class successfully compiled and saved. However, the Calculator class has a compile time error.

How should the developer fix this code?

A. Change the class declaration for the calculator class to public with inherited sharing.

B. Make the isActive method in the statusfetcher class public.

C. Make the decalculations method in the calculator class private.

D. Change the class declaration for the statusFetcher class to public with inherited sharing.

53 of 65. Management asked for opportunities to be automatically created for accounts with annual revenue greater than \$1,000,000. A developer created the following trigger on the Account object to satisfy this requirement.

```
for (Account a: Trigger.com) {
```

```
    if (a.Annual Revenue > 1000000) {
```

```
        List<Opportunity> oppList (SELECT Id FROM Opportunity WHERE accountId = :a.Id);
```

```
        if (oppList.size() == 0) {
```

```
            Opportunity oppty=new Opportunity (Name= a.name, StageName = 'Prospecting', CloseDate= system.today().addDays(30));
```

```
            insert oppty;
```

Users are able to update the account records via the UI and can see an opportunity created for high annual revenue accounts. However, when the administrator tries to upload a list of 179 accounts using Data Loader, it fails with system.Exception errors.

Which two actions should the developer take to fix the code segment shown above?

Choose 2 answers

- A. Check if all the required fields for Opportunity are being added on creation.
- B. Use Database.query to query the opportunities.
- C. **Query for existing opportunities outside of the for loop.**
- D. **Move the DML that saves opportunities outside of the for loop.**

54 of 65. The code below deserializes input into a list of Accounts.

```
public class AcctCreator {  
    public void insertAccounts () { String acctJson= getAccountJson ();  
  
    List<Account> accts= (List<Account>) JSON.deserialize (acctJson, List<Account>.class);  
  
    // DML to insert accounts  
  
    //... other code including getAccountJson implementation
```

Which code modification should be made to insert the Accounts so that field-level security is respected?

- A. 01: public with sharing class AcctCreator
- B. **05: if (sObjectType.Account.isCreatable())**
- C. 05: accts Database.stripInaccessible (accts, Database.CREATABLE);
- D. 05: SobjectAccessDecision ad Security.stripInaccessible (AccessType.CREATABLE, accts);

55 of 65. Which two statements are true about Getter and Setter methods as they relate to Visualforce?

Choose 2 answers

- A. Setter methods always have to be declared global.
- B. A corresponding Setter method is required for each Getter method.
- C. Getter methods must be named `getVariable` and Setter methods must be named `set Variable`.
- D. Getter methods pass values from a controller to a page.

56 of 65. Get Cloudy Consulting (GCC) has a multitude of servers that host its customers' websites. GCC wants to provide a servers status page that is always on display in its call center. It should update in real time with any changes made to any servers. To accommodate this on the server side, a developer created a Server Update platform event.

The developer is working on a Lightning web component to display the information.

What should be added to the Lightning web component to allow the developer to interact with the Server Update platform event?

- A. import { subscribe, unsubscribe, onError } from lightning/Message Channel'
- B. import subscribe, unsubscribe, onError from 'lightning/pubsub'
- C. import subscribe, unsubscribe, onError) from lightning/ServerUpdate'
- D. import subscribe, unsubscribe, onError) from lightning/empApi';

57 of 65. A business implemented a gamification plan to encourage its customers to watch some educational videos.

Customers can watch videos over several days, and their progress is recorded. Award points are granted to customers for all completed videos. When the video is marked as completed in Salesforce, an external web service must be called so that points can be awarded to the user

A developer implemented these requirements in the after update trigger by making a call to an external web service. However, a `dysten`, `CalloutException` is occurring

What should the developer do to fix this error?

A.Surround the external call with a try-catch block to handle the exception.

B. Move the callout to an asynchronous method with @future(callout=true) annotation.

C.Replace the after update trigger with a before insert trigger

D.Write a REST service to integrate with the external web service.

58 of 65. A developer is migrating a Visualforce page into a Lightning web component.

The Visualforce page shows information about a single record. The developer decides to use Lightning Data Service to access record data.

Which security consideration should the developer be aware of?

A.The with sharing keyword must be used to enforce sharing rules.

B. The isAccessible() method must be used for field-level access checks.

C.Lightning Data Service ignores field-level security.

D. Lightning Data Service handles sharing rules and field-level security.

59 of 65. Universal Containers uses Salesforce to create orders.

When an order is created, it needs to sync with the in-house order fulfillment system. The order fulfillment system can accept SOAP messages over HTTPS. If the connection fails, messages should be retried for up to 24 hours.

What is the recommended approach to sync the orders in Salesforce with the order fulfillment system?

A. Write an Apex SOAP service to integrate with the order fulfillment system.

B. Create an after insert trigger on the Order object to make a callout to the order fulfillment system.

C. Use Process Builder to call an invocable Apex method that sends a message to the order fulfillment system.

D. Set up a Workflow Rule outbound message to the order fulfillment system..

61 of 65. A developer is debugging the following code to determine why Accounts are not being created.

```
Account a new Account (Name = 'A');
```

```
Database.insert (a, false);
```

How should the code be altered to help debug the issue?

A. Add a try/catch around the insert method.

B. Collect the insert method return value in a SaveResult record.

C. Set the second insert method parameter to TRUE.

D. Add a System.debug() statement before the insert method.

62 of 65. A third-party vendor created an unmanaged Lightning web component. The Salesforce Administrator wishes to expose the component only on Record Page Layouts.

Which two actions should the developer take to accomplish this business objective?

Choose 2 answers

A. Specify lightning Community\_Page as a target in the XML file.

B. Specify lightning Community Page Layout as a target in the XML file.

C. Ensure istxposed is set to true on the XML file.

D. Specify lightning RecordPage as a target in the XML file.

63 of 65. A developer creates a Lightning web component that imports a method within an Apex class. When a Validate button is pressed, the method runs to execute complex validations.

In this implementation scenario, which artifact is part of the Controller according to the MVC architecture?

- A. Apex class
- B. JavaScript file
- C. HTML file
- D. XML file

64 of 65. Which annotation exposes an Apex class as a RESTful web service?

- A. @RemoteAction
- B. @HttpInvocable
- C. @RestResource.
- D. @AuraEnabled

65. AW computing tracks order information in custom objects called order\_c and order\_lines\_c. Currently , all shipping information is stored in the order\_c object.

The company wants to expand its order application to support split shipments so that any number of order\_lines\_c records on single order\_c can be shipped to different locations.

**Order\_shipment\_Group\_c object and Master Details field on order\_lines\_c**

Q.An org has two custom objects

Plan\_c that has a master-detail Relationship to the Account Object

Plan\_item\_c has a master-detail Relationship to the Plan\_c object

What should a developer use to create a Visualforce section on the Account page Layout that Displays Account and all of the Plan\_item\_c records related to those Plan\_c records.

A standard controller with a controller extension

1. A developer has a single custom controller class that works with a Visualforce Wizard to support creating and editing multiple sObjects. The wizard accepts data from user inputs across multiple Visualforce pages and from a parameter on the initial URL.

Which three statements are useful inside the unit test to effectively test the custom controller?

B,D,E

Choose 3 answers

- A Insert pageRef;
- B Test.setCurrentPage(pageRef);**
- C public ExtendedController(ApexPages.StandardController cntrl) { }
- D ApexPages.currentPage().getParameters().put('Input', 'TestValue');**
- E String nextPage = controller.save().getUrl();**

2. An org has an existing Visual Flow that creates an Opportunity with an Update Records element. A developer must update the Visual Flow to also create a Contact and store the created Contact's ID on the Opportunity.

Which update should the developer make in the Visual Flow?

- A Add a new Quick Action () element
- B Add a new Create Records element**
- C Add a new Get Records element
- D Add a new Update Records element

3. A developer must implement a CheckPaymentProcessor class that provides check processing payment capabilities that adhere to what is defined for payments in the PaymentProcessor interface.

```
public interface PaymentProcessor {  
    void pay (Decimal amount);  
}
```

Which is the correct implementation to use the PaymentProcessor interface class?

- A) public class CheckPaymentProcessor extends PaymentProcessor {  
 public void pay (Decimal amount) ()  
}
- B) public class CheckPaymentProcessor extends PaymentProcessor {  
 public void pay(Decimal amount) ;  
}
- C) public class CheckPaymentProcessor implements PaymentProcessor {  
 Public void pay(Decimal amount) ;

```
D) public class CheckPaymentProcessor implements PaymentProcessor {  
    Public void pay(Decimal amount) ()
```

4. Cloud Kicks Fitness, an ISV Salesforce partner, is developing a managed package application. One of the application modules allows the user to calculate body fat using the Apex class, BodyFat, and its method, calculateBodyFat (). The product owner wants to ensure this method is accessible by the consumer of the application when developing customizations outside the ISV's package namespace.

Which approach should a developer take to ensure calculateBodyFat () is accessible outside the package namespace?

- A) Declare the class as global and use the public access modifier on the method.
- B) Declare the class as public and use the global access modifier on the method.
- C) Declare the class and method using the public access modifier.
- D) Declare the class and method using the global access modifier.

5. What are three capabilities of the <ltng:require> tag when loading JavaScript resources in Aura components?

Choose 3 answers

- A) Loading files from Documents
- B) One-time loading for duplicate scripts
- C) Specifying loading order
- D) Loading scripts in parallel
- E) Loading externally hosted scripts

6. A developer creates a new Apex trigger with a helper class, and writes a test class that only exercises 95% coverage of the new apex helper class.

Change Set deployment to production fails with the test coverage warning:

“Test coverage of selected Apex Trigger is 0%, at least 1% test coverage is required.”

What should the developer do to successfully deploy the new Apex trigger and helper class?

- A) Remove the failing test methods from the test class.
- B) Run the tests using the ‘Run All Tests’ method.
- C) Increase the test class coverage on the helper class.
- D) Create a test class and methods to cover the Apex trigger.

**7. For which three items can a trace flag be configured?**

Choose 3 answers

- A) Process Builder
- B) Visualforce
- C) Apex Class
- D) Apex Trigger
- E) User

**8. Which two characteristics are true for Aura component events?**

Choose 2 answers

- A) Calling `event.stopPropagation()` may or may not stop the event propagation based of the current propagation phase.
- B) If a container component needs to handle a component event, add a `handleFacets="true"` attribute to its handler.
- C) Only parent components that create subcomponents (either in their markup or programmatically) can handle events.
- D) The event propagates to every owner in the containment hierarchy.

**9. Instead of sending emails to support personnel directly from Salesforce, Universal Containers wants to notify an external system in the event that an unhandled exception occurs.**

**What is the appropriate publish/subscribe logic to meet this requirement?**

- A) Publish the error event using the `addError()` method and have the external system subscribe to the event using CometD.
- B) Publish the error event using the `Eventbus.publish()` method and have the external system subscribe to the event using CometD.
- C) Have the external system subscribe to the `BatchApexError` event, no publishing is necessary
- D) Publish the error event using the `addError()` method and write a trigger to subscribe to the event and notify the external system.

**10. A developer must troubleshoot to pinpoint the causes of performance issues when a custom page loads in their org.**

**Which tool should the developer use to troubleshoot?**

- A) Developer Console
- B) Visual Studio Code IDE
- C) AppExchange
- D) Setup Menu

**11. What is a fundamental difference between a Master-Detail relationship and a Lookup relationship?**

- A) In a Master-Detail Relationship, when a record of a master object is deleted, the detail records are not deleted.
- B) In a Lookup relationship when the parent record is deleted, the child records are always deleted.
- C) A Master-Detail relationship detail record inherits the sharing and security of its master record.
- D) In a Lookup relationship, the field value is mandatory.

**12. What can be developed using the Lightning Component framework?**

- A) Hosted web applications
- B) Single-page web apps
- C) Dynamic web sites
- D) Salesforce integrations

**13. A developer writes a single trigger on the Account object on the after insert and after update events. A workflow rule modifies a field every time an Account is created or updated.**

**How many times will the trigger fire if a new Account is inserted, assuming no other automation logic is implemented on the Account?**

**How many times will the trigger fire if a new Account is inserted, assuming no other automation logic is implemented on the Account?**

- A) 1
- B) 8
- C) 2
- D) 4

**14. A developer wants to invoke an outbound message when a record meets a specific criteria.**

**Which three features satisfy this use case?**

Choose 3 answers

- A) Process builder can be used to check the record criteria and then call Apex code.
- B) Process builder can be used to check the record criteria and send an outbound message without Apex Code.
- C) Flow Builder can be used to check the record criteria and send an outbound message without additional code.
- D) Workflows can be used to check the record criteria and send an outbound message.

- E) Approval Process has the capability to check the record criteria and send an outbound message without Apex Code.

**15. A developer needs to join data received from an integration with an external system with parent records in Salesforce. The data set does not contain the Salesforce IDs of the parent records, but it does have a foreign key attribute that can be used to identify the parent.**

**Which action will allow the developer to relate records in the data model without knowing the Salesforce ID?**

- A) Create a custom field on the child object of type Foreign Key.
- B) Create and populate a custom field on the parent object marked as Unique.
- C) Create and populate a custom field on the parent object marked as an External ID.
- D) Create a custom field on the child object of type External Relationship.

**16. A PrimaryId C custom field exists on the Candidate c custom object. The field is used to store each candidate's id number and is marked as Unique in the schema definition.**

**As part of a data enrichment process, Universal Containers has a CSV file that contains updated data for all candidates in the system. The file contains each Candidate's primary id as a data point. Universal Containers wants to upload this information into Salesforce, while ensuring all data rows are correctly mapped to a candidate in the system.**

**Which technique should the developer implement to streamline the data upload?**

- A) Create a Process Builder on the Candidate\_\_c object to map the records.
- B) Create a before insert trigger to correctly map the records.
- C) Update the PrimaryId\_\_c field definition to mark it as an External Id.
- D) Upload the CSV into a custom object related to Candidate\_\_c.

**17. Universal Containers hires a developer to build a custom search page to help users find the Accounts they want. Users will be able to search on Name, Description, and a custom comments field.**

**Which consideration should the developer be aware of when deciding between SOQL and SOSL?**

Choose 2 answers

- A) SOSL is able to return more records.
- B) SOQL is faster for text searches.
- C) SOSL is faster for text searches.
- D) SOQL is able to return more records.

**18. Universal Containers stores Orders and Line Items in Salesforce. For security reasons, financial representatives are allowed to see information on the Order such as order amount, but they are not allowed to see the Line Items on the Order.**

**Which type of relationship should be used?**

- A) Master-Detail
- B) Lookup**
- C) Direct Lookup
- D) Indirect Lookup

**19. A developer wrote Apex code that calls out to an external system.**

**How should a developer write the test to provide test coverage?**

- A) Write a class that extends HTTPCalloutMock.
- B) Write a class that implements the HTTPCalloutMock interface.**
- C) Write a class that implements WebserviceMock.
- D) Write a class that extends WebserviceMock.

**20. Which two statements accurately represent the MVC framework implementation in Salesforce?**

Choose 2 answers

- A) Validation rules enforce business rules and represent the Controller (C) part of the MVC framework.**
- B) Lightning component HTML files represent the Model (M) part of the MVC framework.
- C) Triggers that create records represent the Model (M) part of the MVC framework.**
- D) Standard and Custom objects used in the app schema represent the View (V) part of the MVC framework.

**21. Which two are phases in the Salesforce Application Event propagation framework?**

Choose 2 answers

- A) Default**
- B) Emit
- C) Control
- D) Bubble**

**22. Which process automation should be used to send an outbound message without using Apex code?**

- A) Flow Builder

- B) Workflow Rule
- C) Strategy Builder
- D) Process Builder

**23. Which three web technologies can be integrated into a Visualforce page?**

Choose 3 answers

- A) PHP
- B) HTML
- C) Java
- D) CSS
- E) JavaScript

**24. Given the following Anonymous Block:**

```
List<Case> casesToUpdate = new List<Case>();  
for(Case thisCase : [Select Id, Status FROM Case LIMIT 50000]) {  
    thisCase.Status = 'Working';  
    casesToUpdate.add(thisCase);  
}  
try{  
    Database.update(casesToUpdate, false);  
}catch(Exception e){  
    System.debug(e.getMessage());  
}
```

**What should a developer consider for an environment that has over 10,000 Case records?**

- A) The try/catch block will handle any DML exceptions thrown.
- B) The transaction will succeed and changes will be committed.
- C) The transaction will fail due to exceeding the governor limit.
- D) The try/catch block will handle exceptions thrown by governor limits.

**25. An Approval Process is defined in the Expense\_Item\_c object. A business rule dictates that whenever a user changes the Status to 'Submitted' on an Expense\_Report\_c record, all the Expense\_Item\_c records related to the expense report must enter the approval process individually.**

**Which approach should be used to ensure the business requirement is met?**

- A) Create a Process Builder on Expense\_Report\_\_c with an 'Apex' action type to submit all related Expense\_Item\_\_c records when the criteria is met.

- B) Create a Process Builder on `Expense_Report__c` with a 'Submit for Approval' action type to submit all related `Expense_Item__c` records when the criteria is met.
- C) Create a Process Builder on `Expense_Report__c` to mark the related `Expense_Item__c` as submittable and a trigger on `Expense_item__c` to submit the records for approval.
- D) Create two Process Builders, one on `Expense_Report__c` to mark the related `Expense_Item__c` as submittable and the second on `Expense_Item__c` to submit the records for approval.

**26. A developer needs to prevent the creation of Request c when certain conditions exist in the system. A RequestLogic class exists that checks the conditions.**

**What is the correct implementation?**

- A) trigger RequestTrigger on Request c (after insert) (
 

```
RequestLogic.validateRecords(trigger.new);
    )
```
- B) trigger RequestTrigger on Request c (before insert) (
 

```
RequestLogic.validateRecords(trigger.new);
    )
```
- C) trigger RequestTrigger on Request\_c (after insert) (
 

```
if (RequestLogic.isValid(Request_c))
    RequestaddError('Your request cannot be created at this time.');
  )
```
- D) trigger RequestTrigger on Request\_c (before insert) (
 

```
if (RequestLogic.isValid(Request_c))
    RequestaddError('Your request cannot be created at this time.');
  )
```

**27. The values “”, “”, and “” are identified as common values for multiple picklists across different objects.**

**What is an approach a developer can take to streamline maintenance of the picklists and their values, while also restricting the values to the ones mentioned above?**

- A) Create the Picklist on each object and select "Restrict picklist to the value defined in the value set".
- B) Create the Picklist on each object and use a Global Picklist Value Set containing the values.
- C) Create the Picklist on each object and add a validation rule to ensure data integrity.
- D) Create the Picklist on each object as a required field and select "Display values alphabetically, not in the order entered".

**28. The sales management team at Universal Containers requires that the Lead Source field of the Lead record be populated when a Lead is converted.**

**What should be used to ensure that a user populates the Lead Source field prior to converting a Lead?**

- A) Formula Field
- B) Process Builder
- C) Workflow Rule
- D) Validation Rule

**29. What is the value of the Trigger.old context variable in a Before Insert trigger?**

- A) null
- B) An empty list of sObjects
- C) A list of newly created sObjects without IDs
- D) Undefined

**30. A developer needs to confirm that a Contact trigger works correctly without changing the organization's data.**

**What should the developer do to test the Contact trigger?**

- A) Use the Open Execute Anonymous feature on the Developer Console to run an 'insert Contact' DML statement.
- B) Use Deploy from the VSCode IDE to deploy an "insert Contact" Apex class.
- C) Use the New button on the Salesforce Contacts Tab to create a new Contact record.
- D) Use the Test menu on the Developer Console to run all test classes for the Contact trigger.

**31. A custom object Trainer c has a lookup field to another custom object Gym c.**

**Which SOQL query will get the record for the Viridian City gym and all its trainers?**

- A) SELECT Id, (SELECT Id FROM Trainer c) FROM Gym c WHERE Name = 'Viridian City Gym'
- B) SELECT Id, (SELECT Id FROM Trainer r) FROM Gym c WHERE Name = 'Viridian City Gym'
- C) SELECT Id, (SELECT Id FROM Trainers c) FROM Gym c WHERE Name = 'Viridian City Gym'
- D) SELECT ID FROM Trainer c WHERE Gym r.Name = 'Viridian City Gym'

**32. A developer wants to get access to the standard price book in the org while writing a test class that covers an OpportunityLineItem trigger.**

**Which method allows access to the price book?**

- A) Use Test.loadData () and a static resource to load a standard price book
- B) Use @TestVisible to allow the test method to see the standard price book.
- C) Use Test.getStandardPricebookId() to get the standard price book ID.**
- D) Use @IsTest (SeeAllData=true) and delete the existing standard price book.

**33. Which Apex class contains methods to return the amount of resources that have been used for a particular governor, such as the number of DML statements?**

- A) Exception
- B) Messaging
- C) OrgLimits**
- D) Limits**

**35. Universal Containers (UC) uses a custom object called Vendor. The Vendor custom object has a Master-Detail relationship with the standard Account object. Based on some internal discussions, the UC administrator tried to change the Master-Detail relationship to a Lookup relationship but was not able to do so.**

**What is a possible reason that this change was not permitted?**

- A) The vendor object must use a Master-Detail field for reporting.
- B) The Account object is included on a workflow on the Vendor object.
- C) The Vendor records have existing values in the Account object.**
- D) The Account records contain Vendor roll-up summary fields.**

**36. A developer writes a trigger on the Account object on the before update event that increments a count field . A workflow rule also increments the count field everytime that an Account is created or updated. The field update in the workflow rule is configured to not re-evaluate workflow rules.**

**What is the value of the count field if an Account is inserted with an initial value of zero, assuming no other automation logic is implemented on the Account?**

- A) 3
- B) 1**
- C) 2**
- D) 4

**37. A developer wants to mark each Account in a List<Account> as either Active or Inactive based on the LastModifiedDate field value being more than 90 days.**

**Which Apex technique should the developer use?**

- A) A for loop, with a switch statement inside
- B) A switch statement, with a for loop inside
- C) An if/else statement, with a for loop inside
- D) A for loop, with an if/else statement inside**

**38. A development team wants to use a deployment script to automatically deploy to a sandbox during their development cycles.**

**Which two tools can they use to run a script that deploys to a sandbox?**

Choose 2 answers

- A) Ant Migration Tool**
- B) SFDX CLI**
- C) Change sets
- D) Developer Console

**39. What should a developer do to check the code coverage of a class after running all tests?**

- A) View the Code Coverage column in the list view on the Apex Classes page.
- B) View the Overall Code Coverage panel of the Tests tab in the Developer Console.
- C) View the Class Test Coverage tab on the Apex Class record.**
- D) Select and run the class on the Apex Test Execution page.

**40. Which aspect of Apex programming is limited due to multitenancy?**

- A) The number of active Apex classes
- B) The number of records processed in a loop
- C) The number of methods in an Apex class
- D) The number of records returned from database queries**

**41. When a user edits the Postal Code on an Account, a custom Account text field named “Timezone” must be updated based on the values in a PostalCodeToTimezone custom object**

**How can a developer implement this feature?**

- A) Build an Account Workflow Rule.
- B) Build an Account Assignment Rule.
- C) Build an Account custom Trigger.**
- D) Build an Account Approval Process.

**42. Which Salesforce feature allows a developer to see when a user last logged in to Salesforce if real-time notification is not required?**

- A) Event Monitoring Log
- B) Asynchronous Data Capture Events
- C) Calendar Events
- D) Developer Log

**44. Which statement generates a list of Leads and Contacts that have a field with the phrase ‘ACME’?**

- A) List <sObject> searchList = [FIND “ACME” IN ALL FIELDS RETURNING Contact, Lead] ;
- B) Map <sObject> searchList = [FIND “ACME” IN ALL FIELDS RETURNING Contact, Lead] ;
- C) List<List <sObject>> searchList = [FIND “ACME” IN ALL FIELDS RETURNING Contact, Lead] ;
- D) List<List <sObject>> searchList = [SELECT Name, ID FROM Contact, Lead WHERE Name like “ACME”] ;

**45. A developer identifies the following triggers on the Expense object:**

deleteExpense,  
applyDefaultsToExpense,  
validateExpenseUpdate;

The triggers process before delete, before insert, and before update events respectively.

**Which two techniques should the developer implement to ensure trigger best practices are followed?**

Choose 2 answers

- A) Unify all three triggers in a single trigger on the Expense\_\_c object that includes all events.
- B) Create helper classes to execute the appropriate logic when a record is saved.
- C) Maintain all three triggers on the Expense\_\_c object, but move the Apex logic out of the trigger definition.
- D) Unify the before insert and before update triggers and use Process Builder for the delete action.

**46. A developer must create an Apex class, ContactController, that a Lightning component can use to search for Contact records. Users of the Lightning component should only be able to search for Contact records to which they have access.**

**Which two will restrict the records correctly?**

Choose 2 answers

- A) public without sharing class ContactController
- B) **public with sharing class ContactController**
- C) public class ContactController
- D) **public inherited sharing class ContactController**

**47. What are three considerations when using the @InvocableMethod annotation in Apex?**

Choose 3 answers

- A) A method using the @InvocableMethod annotation can have multiple input parameters.
- B) **A method using the @InvocableMethod annotation can be declared as Public or Global.**
- C) A method using the @InvocableMethod annotation must define a return value.
- D) **A method using the @InvocableMethod annotation must be declared as static.**
- E) **Only one method using the @InvocableMethod annotation can be defined per Apex class.**

**48. A custom picklist field, Food\_Preference c, exists on a custom object. The picklist contains the following options: 'Vegan', 'Kosher', 'No Preference'. The developer must ensure a value is populated every time a record is created or updated.**

**What is the most efficient way to ensure a value is selected every time a record is saved?**

- A) Mark the field as Required on the object's page layout.
- B) **Mark the field as Required on the field definition.**
- C) Set a validation rule to enforce a value is selected.
- D) Set "Use the first value in the list as the default value" as True.

**49.**

**Which Lightning code segment should be written to declare dependencies on a Lightning component, c:accountList, that is used in a Visualforce page?**

- A) **<aura:application access="GLOBAL" extends="ltng:outApp">**  
**<aura:dependency resource="c:accountList"/>**  
**</aura:application>**
- B) **<aura:component access="GLOBAL" extends="ltng:outApp">**  
**<aura:dependency resource="c:accountList"/>**  
**</aura:component>**
- C) **<aura:component access="GLOBAL">**  
**<aura:dependency resource="c:accountList"/>**  
**</aura:component>**
- D) **<aura:application access="GLOBAL">**

```
<aura:dependency resource="c:accountList"/>
</aura:application>
```

**50. What should be used to create scratch orgs?**

- A) Sandbox refresh
- B) Workbench
- C) Salesforce CLI
- D) Developer Console

**51. Refer to the following code snippet for an environment has more than 200 Accounts belonging to the ‘Technology’ industry:**

```
for(Account thisAccount : [Select Id, Industry FROM Account LIMIT 150]){
    if(thisAccount.Industry == 'Technology'){
        thisAccount.Is_Tech_c = true;
    }
    update thisAccount;
}
```

**When the code executes, which two events occur as a result of the Apex transaction?**

Choose 2 answers

- A) If executed in an asynchronous context, the apex transaction is likely to fail by exceeding the DML governor limit.
- B) The Apex transaction succeeds regardless of any uncaught exception and all processed accounts are updated.
- C) The Apex transaction fails with the following message: “SObject row was retrieved via SOQL without querying the requested field: Account.Is\_Tech\_c”
- D) If executed in a synchronous context, the apex transaction is likely to fail by exceeding the DML governor limit.

**52. Which two events need to happen when deploying to a production org?**

Choose 2 answers

- A) All Apex code must have at least 75% test coverage.
- B) All triggers must have at least 1% test coverage.
- C) All Process Builder Processes must have at least 1% test coverage.
- D) All Visual Flows must have at least 1% test coverage.

**53. An org tracks customer orders on an Order object and the line items of an Order on the Line Item object. The Line Item object has a Master/Detail relationship to the Order object. A developer has a requirement to calculate the order amount on an Order and the line amount on each Line Item based on quantity and price.**

### **What is the correct implementation?**

- A) Implement the line amount as a numeric formula field and the order amount as a roll-up summary field
- B) Implement the line amount as a currency field and the order amount as a SUM formula field.
- C) Write a process on the Line Item that calculates the item amount and order amount and updates the fields on the Line Item and the Order.
- D) Write a single before trigger on the Line Item that calculates the item amount and updates the order amount on the Order.

**54. A developer must create a ShippingCalculator class that cannot be instantiated and must include a working default implementation of a calculate method, that sub-classes can override.**

### **What is the correct implementation of the ShippingCalculator class?**

- A) public abstract class ShippingCalculator {  
    public virtual void calculate() ( /\*implementation\*/ )  
}
- B) public abstract class ShippingCalculator {  
    public override calculate() ( /\*implementation\*/ )  
}
- C) public abstract class ShippingCalculator {  
    public void calculate() ( /\*implementation\*/ )  
}
- D) public abstract class ShippingCalculator {  
    public abstract calculate() ( /\*implementation\*/ )  
}

**55. Which code in a Visualforce page and/or controller might present a security vulnerability?**

- A) <apex:outputField escape="false" value=" {!ctrl.userInput} " />
- B) <apex:outputText value=" { ! \$ CurrentPage.parameters.userInput} " />
- C) <apex:outputText escape="false" value=" { ! \$ CurrentPage.parameters.userInput} " />
- D) <apex:outputField value=" { ! ctrl.userInput} " />

**56. How should a custom user interface be provided when a user edits an Account in Lightning Experience?**

- A) Override the Account's Edit button with a Lightning component.
- B) Override the Account's Edit button with a Lightning Action.
- C) Override the Account's Edit button with a Lightning page.

D) Override the Account's Edit button with a Lightning Flow

**57. Given the following code snippet, that is part of a custom controller for a Visualforce page:**

```
public void updateContact (Contact thisContact) {  
    thisContact.Is_Active_c = false;  
    try{  
        update thisContact;  
    }catch (Exception e) {  
        String errorMessage = 'An error occurred while updating the Contact. '+e.getMessage () }  
        ApexPages.addmessage (new ApexPages.message (ApexPages.severity.FATAL,  
errorMessage)) ;  
    }.  
}
```

**In which two ways can the try/catch be enclosed to enforce object and field-level permissions and prevent the DML statement from being executed if the current logged-in user does not have the appropriate level of access?**

Choose 2 answers

- A) Use if(Schema.sObjectType.Contact.isUpdatable ())
- B) Use if(Schema.sObjectType.Contact.fields.Is\_Active\_c.isUpdateable ())
- C) Use if(Schema.sObjectType.Contact.isAccessible ())
- D) Use if(thisContact.OwnerId == UserInfo.getUserId ())

**58. Application Events follow the traditional publish-subscribe model.**

**Which method is used to fire an event?**

- A) emit()
- B) fireEvent()
- C) registerEvent()
- D) fire()

**59. A developer must create a Lightning component that allows users to input Contact record information to create a Contact record, including a Salary\_c custom field.**

**What should the developer use, along with a lightning-record-edit-form, so that Salary\_c field functions as a currency input and is only viewable and editable by users that have the correct field level permission on Salary\_c?**

- A) <lightning-input type="number" value="Salary\_c" formatter="currency"></lightning-input>

- B) <lightning-formatted-number value="Salary c" format-style="currency">  
</lightning-formatted-number>
- C) <lightning-input-currency value="Salary c">  
</lightning-input-currency>
- D) <lightning-input-field field-name="Salary c">  
</lightning-input-field>

**60. A developer is asked to create a Visualforce page that displays some Account fields as well as fields configured on the page layout for related Contacts.**

**How should the developer implement this request?**

- A) Use the <apex:relatedList> tag.
- B) Use the <apex:include> tag.
- C) Add a method to the standard controller.
- D) Create a controller extension.

**61. A developer is asked to create a Visualforce page for Opportunities that allows users to save or merge the current record.**

**Which approach should the developer use to meet this requirement?**

- A) A controller extension
- B) Visualforce page JavaScript
- C) A custom controller
- D) Standard controller methods

**62. What should a developer use to obtain the Id and Name of all the Leads, Accounts, and Contacts that have the company name “Universal Containers”?**

- A) SELECT Lead.id, Lead.Name, Account.Id, Account.Name, Contact.Id, Contact.Name  
FROM Lead, Account, Contact WHERE CompanyName = ‘Universal Containers’
- B) SELECT lead(id, name), account(id, name), contact(id, name) FROM Lead, Account,  
Contact WHERE Name = ‘Universal Containers’
- C) FIND ‘Universal Containers’ IN CompanyName Fields RETURNING lead(id, name),  
account(id, name), contact(id, name)
- D) FIND ‘Universal Containers’ IN Name Fields RETURNING lead(id, name), account(id,  
name), contact(id, name)

**63. Which exception type cannot be caught?**

- A) NoAccessException
- B) CalloutException

- C) A Custom Exception
- D) LimitException

**64. An Apex method, getAccounts, that returns a list of Accounts given a searchTerm, is available for Lightning Web components to use.**

**What is the correct definition of a Lightning Web component property that uses the getAccounts method?**

- A) @wire (getAccounts, '\$searchTerm')  
accountList;
- B) @AuraEnabled(getAccounts, ( searchTerm: '\$searchTerm'))  
accountList;
- C) @AuraEnabled(getAccounts, '\$searchTerm')  
accountList;
- D) @wire(getAccounts, ( searchTerm: '\$searchTerm'))  
accountList;

**65. A Lightning component has a wired property, searchResults, that stores a list of Opportunities.**

**Which definition of the Apex method, to which the searchResults property is wired, should be used?**

- A) @AuraEnabled(cacheable=true)  
public List<Opportunity> search(String term) ( /\*implementation\*/ )
- B) @AuraEnabled(cacheable=false)  
public List<Opportunity> search(String term) ( /\*implementation\*/ )
- C) @AuraEnabled(cacheable=false)  
Public static List<Opportunity> search(String term) ( /\*implementation\*/ )
- D) @AuraEnabled(cacheable=true)  
public static List<Opportunity> search(String term) ( /\*implementation\*/ )

**Q3 universal containers stores orders and line items in salesforce. for security reasons, financial representatives are allowed to see information on the order such as order amount, but they are not allowed to see the line items on the order.**

**Which type of relationship should be used?**

- A. Indirect lookup
- B. lookup
- C. Master Detail
- D. Direct lookup

**Q4 Which three statements are accurate about debug logs?**

**Choose 3 answers**

- A To view debug logs., “Manager users” Or “view all data ” permission is needed.
- B Amount of information logged in the debug log can be controlled by the bug levels.
- C Debug log levels are cumulative, where FINE log level includes all events logged at the DEBUG, INFO, WARN, and ERROR levels.
- D To view Debug logs “Manager users” or “Modify All Data ” permission is needed.
- E Amount of information logged in the debug log can be controlled programmatically.

**Q7 a developer wants to mark each Account in a list<Account> as either Active or in active based on the LastModifiedDate field value being more than 90 days.**

**Which Apex technique should the developer use?**

- A A switch statement, with a for loop inside
- B A for loop, with if/ else statement inside
- C An if/else statement, with a for loop inside
- D A for loop, with a switch statement inside

**Q8 which scenario is valid for execution by unit tests?**

- A. load data from a remote site with a callout.
- B. Execute anonymous Apex as a different user
- C. Set the created date of a record using a system method
- D. Generate a Visualforce PDF with getContentAsPDF()

**Q9 How should a developer write unit tests for a private method in an Apex class?**

- A. Use the SeeAllData annotation.
- B. Mark the Apex class as global
- C. Use the TestVisible Annotation
- D. Add a test method in the Apex class

**10. Which two statements are accurate regarding Apex Classes and Interfaces?**

Choose 2 answers

- A. Inner classes are public by default
- B. Interface methods are public by default
- C. A top-level class can only have one inner class level.
- D. Classes are final by default.

**11. A developer must create an Apex class, ContactController, that a Lightning component can use to search for Contact records. Users of**

**The Lightning component should only be able to search for Contact records to which they have access.**

**Which two will restrict the records correctly?**

**Choose 2 answers**

- A. Public inherited sharing class ContactController
- B. Public with sharing class ContactController
- C. Public without sharing class ContactController
- D. Public class ContactController

**12. The following Apex method is part of the ContactServices class that is called from a trigger:**

```
Public static void setBusinessunitToEMEA(contact thisContact){  
    thisContact.Business_Unit = 'EMEA';  
    update thisContact;  
}
```

**How should the developer modify the code to ensure best practices are met?**

- A. Public static void setBusinessUnitToEMEA(Contact thisContact){  
 List<Contact> contacts = new List<Contact>();  
 Contacts.add(thisContact.Business\_unit c= 'EMEA');  
 Update contacts;  
}
- B. public static void setBusinessUnitToEMEA(List<Contact> contacts){  
 for(Contact thisContact : contacts){  
 thisContact.Business\_unit c = 'EMEA';  
 }  
 update contacts;  
}

```
C. Public static void setBusinessUnitToEMEA(List<Contact> contacts){  
    For(Contact thisContact : contacts){  
  
        thisContact.Business_Unit_c = 'EMEA';  
        Update contacts[0];  
    }  
}
```

```
D. Public static void setBusinessUnitToEMEA(List<Contact> contacts){  
    Contacts[0].Business_unit c = 'EMEA';  
    Update contacts[0];  
}
```

**14. A developer wants to retrieve the Contacts and Users with the email address ‘dev@uc.com’.**

**Which SOSL statement should the developer use?**

- A. FIND (dev@uc.com) IN Email Fields RETURNING Contact (Email), User (Email)
- B. FIND Email IN Contact, User FOR (dev2uc.com)
- C. FIND (Email = 'dev@uc.com') IN Contact, User
- D. FIND (Email = 'dev@uc.com') RETURNING Contact (Email), User (Email)

**15. A custom picklist field, Food\_Preference\_c, exists on a custom object. The picklist contains the following options: ‘Vegan’, ‘Kosher’,**

**‘No Preference’ . The developer must ensure a value is populated every time a record is created or updated.**

**What is the most efficient way to ensure a value is selected every time a record is saved?**

- A. Set “Use the first value in the list as the default value” as True.
- B. **Mark the field as Required on the field definition.**
- C. Mark the field as Required on the object’s page layout.
- D. Set a validation rule to enforce a value is selected.

**16. What is the result of the following code snippet?**

```
Public void dowork(Account acct){  
    For (integer i = 0; i <=200; i++){  
        Insert acct;  
    }  
}
```

- A 200 Accounts are inserted.
- B 201 Accounts are inserted.
- C **0 Accounts are inserted.**
- D 1 Accounts are inserted.

**17. A developer has an integer variable called maxAttempts. The developer needs to ensure that once maxattempts is initialized, it preserves its value for the length of the Apex transactions; while being able to share the variable’s state between trigger executions.**

**How should the developer declare maxattempts to meet these requirements?**

- A Declare maxAttempts as a private static variable on a helper class.
- B **Declare maxAttempts as a constant using the static and final keywords.**

- C. Declare maxAttempts as a variable on a helper class.
  - D. Declare maxAttempts as a member variable on the trigger definition.
- 18. A developer has a single custom controller class that works with a visualforce wizard to support creating and editing multiple sObjects. The wizard accepts data from user inputs across multiple visual force pages and from a parameter on the initial URL. (choose 3).**
- A. Public extended controller(ApexPages.StandardController cntrl){}
  - B. ApexPages.currentPage().getParameters().put('input','TestValue');
  - C. Test.setCurrentPage(pageRef);
  - D. insert pageRef;
  - E. String nextPage=controller.save().getUrl();
- 19. A developer writes a trigger on the account object on the before update event that increments a count field. A workflow rule also increments the count field every time that an account is created or updated. The field update in the workflow rule is configured to not evaluate workflow rules.**

**What is the value of the count field if an account inserted with an initial value of zero, assuming no other automation logic is implemented on the Account?**

- A 2
- B 3
- C 1
- D 4

**20. Which two operations can be performed using a formula field?**

**(two answers)**

- A. Displaying. Last 4 digits of an encrypted social security number.

- B. Triggering a process Builder.
- C. displaying an image based on opportunity amount.
- D. calculating a scores on a lead based on the information from another field.

**Q. 22.**

A developer created a visualforce page and custom controller to display the account type field as shown below.

**Custom controller code:**

```
Public with sharing class customCtrlr {  
    private Account theAccount;  
    public String actType;  
  
    public customCtrlr() {  
        theAccount = [SELECT Id, Type FROM Account  
                     WHERE Id = :ApexPages . current Page () . getParameter{} .get('id')];  
        actType = theAccount.Type;  
    }  
}
```

**Visualforce page snippet:**

The Account Type is (!actType)

The value of the account type field is not being displayed correctly on the page. Assuming the custom controller is properly referenced on the Visualforce page, what should the developer do to correct the problem?

- A. Add with sharing to the custom controller.
- B. Add a getter method for the actType attribute.
- C. Change theAccount attribute to public.
- D. Convert theAccount.Type to a string.

**Q. 24.**

An Apex method, getAccounts, that returns list of Accounts given a searchTerm, is available for Lightning Web components to use. What is the correct definition of a Lightning Web component property that uses the getAccounts method?

- A. `@wire (getAccounts, {searchTerm: '$searchTerm'})`  
`accountList;`

- B. @wire(getAccounts, '\$searchTerm')  
accountList;
- C. @AuraEnabled (getAccounts, '\$searchTerm')
- D. @AuraEnabled (getAccounts, {searchTerm; '\$searchTerm'})  
accountList;

### Q. 25

**Which process automation should be used to send and outbound message without using Apex code?**

- A. Process Builder
- B. Strategy Builder
- C. Workflow Rule
- D. Flow Builder

### Q. 26

**What is the maximum number of SOQL queries used by the following code?**

```
List<Account> aList = [SELECT Id FROM Account LIMIT 5];  
for (Account a : aList){  
List<Contact> cList = [SELECT Id FROM contact WHERE AccountId = :a.Id];  
}
```

- A. 6
- B. 2
- C. 5
- D. 1

### Q.29

**A developer has an Apex controller for a Visualforce page that takes an ID as a URL parameter.**

**How should the developer prevent a cross site scripting vulnerability?**

- A. String.ValueOf(ApexPages.currentPage().getParameters().get('url\_param'))
- B. ApexPage.currentPage().getParamters().get('url\_param'), escapeHtml4()
- C. ApexPages.currentPage().getParameters().get('url\_param')
- D. String.escapeSingleQuotes(ApexPages.currentPage().getParameters().get('url\_param'))

**32. Application Events follow the traditional publish-subscribe model**

Which method is used to fire an event?

- A) registerEvent()
- B) emit()
- C) fire()
- D) fireEvent()

**35. A developer wants to invoke an outbound message when a record meets a specific criteria.**

Which three features satisfy this use case?

- A) Approval Process has the capability to check the record criteria and send an outbound message without Apex Code
- B) Process builder can be used to check the record criteria and send an outbound message without Apex code
- C) Process builder can be used to check the criteria and then call Apex code.
- D) Flow builder can be used to check the record criteria and send an outbound message without additional code.
- E) Workflows can be used to check the record criteria and send an outbound message

**Q. A developer at Universal Containers is tasked with implementing a new Salesforce Application that will be maintained completely by their company's Salesforce administrator.**

Which three options should be considered for building out the business logic layer of the application?

**Choose 3 answers**

- A) Validations Rules
- B) Flow builder
- C) Process builder
- D) Invocable Actions
- E) Scheduled Jobs

**Q. Given the following trigger implementation:**

```
trigger leadTrigger on Lead (before update) {  
    final ID BUSINESS_RECORDTYPEID = '012500000009Qad';  
  
    for(Lead thisLead :Trigger.new) {  
        if(thisLead.Company != null && thisLead.RecordTypeId != BUSINESS_RECORDTYPEID){  
            thisLead.RecordTypeId = BUSINESS_RECORDTYPEID;  
        }  
    }  
}
```

**The developer receives deployment errors every time a deployment is attempted from the Sandbox to Production.**

**What should the developer do to ensure a successful deployment?**

- A) Ensure a record type with an ID of BUSINESS\_RECORDTYPEID exists on Production prior to deployment.
- B) Ensure BUSINESS\_RECORDTYPEID is retrieved Schema.Describe calls.
- C) Ensure the deployment is validated by a System Admin user on Production.
- D) **Ensure BUSINESS\_RECORDTYPEID is pushed as part of the deployment components.**

**Q. What is the result of the following code?**

```
Account a = new Account();
```

```
Database.insert(a, false);
```

- A) The record will not be created and an exception will be thrown.
- B) The record will be created and no error will be reported.
- C) The record will be created and a message will be in the debug log.
- D) **The record will not be created and no error will be reported.**

**44. What should be used to create scratch orgs?**

- A. Developer Console
- B. **Salesforce CLI**
- C. Workbench
- D. Sandbox refresh

**45. A development team wants to use a deployment script to automatically deploy a sandbox during their development cycles.**

**Which two tools can they use to run a script that deploys to a sandbox?**

**Choose 2 answers**

- A. Developer console
- B. SFDX CLI**
- C. VSCode**
- D. Change Sets

**48. When a user edits the Postal code on an Account, a custom Account text field named "Timezone" must be based on the values in a `PostalCodeToTimezone__c` custom object**

**How can a developer implement this feature?**

- A. Build an Account Assignment rule
- B. Build a Workflow rule
- C. Build an Account Approval Process
- D. Build a flow with Flow Builder**

- 5 A developer must create a `ShippingCalculator` class that cannot be instantiated and must include a working default implementation of a `calculate` method, that sub-classes can override**

**What is the correct implementation of the `ShippingCalculator` class?**

- A. `public abstract class ShippingCalculator {  
 public virtual void calculate() /*implementation*/}  
}`
- B. `public abstract class ShippingCalculator {  
 Public override calculate() { /*implementation*/ }  
}`
- C. `public abstract class ShippingCalculator {  
 Public void calculate() { /*implementation*/ }  
}`
- D. `public abstract class ShippingCalculator {  
 Public abstract calculate() { /*implementation*/ }  
}`

- 65. Universal Containers implemented a private sharing model for the Account object. A custom Account search tool was developed with Apex to help sales representatives find accounts that match multiple criteria they specify. Since, it's release, users of tool report they can see Accounts they do not own**

**What should the developer use to enforce sharing permissions for the currently logged in user while using the custom search tool?**

- A Use the UserInfoApex class to filter all SOQL queries to return records owned by the logged-in user.
- B Use the schema describe calls to determine if the logged-in user has access to the Account object
- C Use the without sharing keyword on the class declaration
- D Use the with sharing keyword on the class declaration

**Q. An Approval process is defined in the Expense\_Item\_c Object. A business rule dictates that whenever a user changes the Status is 'Submitted' on an Expense\_Report\_c record, all the Expense\_Item\_c records related to the expense report must enter the approval process individually.**

**Which approach should be used to ensure the business requirement is met?**

- A. Create two Process Builders, One on Expense\_Report\_c to mark the related Expense\_Item\_c as submittable and the second on Expense\_Item\_c to submit the records for approval.
- B. Create a Process Builder on Expense\_Report\_c with a 'Submit for Approval' action type to submit all related Expense\_Item\_c records when the criteria is met.
- C. Create a Process Builder on Expense\_Report\_c to mark the related Expense\_Item\_c as submittable and a trigger on Expense\_Item\_c to submit the records for approval.
- D. Create a Process Builder on Expense\_Report\_c with an 'Apex' action type to submit all related Expense\_Item\_c records when the criteria is met.

**Which three Salesforce resources can be accessed from a Lightning web component?**

Choose 3 answers

- A. Content asset files

- B. Static resources
- C. All external libraries
- D. Third-party web components
- E. SVGresources

### What is an example of a polymorphic lookup field in Salesforce?

- A. The ParentId field on the standard Account object
- B. A custom field, Link c, on the standard Contact object that looks up to an Account or a Campaign
- C. The WhatId field on the standard Event object
- D. The LeadId and ContactId fields on the standard Campaign Member object

### What are three characteristics of change set deployments?

Choose 3 answers

- A. Deployment is done in a one-way, single transaction.
- B. Change sets can only be used between related organizations.
- C. Change sets can deploy custom settings data.
- D. Change sets can be used to transfer records.
- E. Sending a change set between two orgs requires a deployment connection.

### Which code in a Visualforce page and/or controller might present a security vulnerability?

- A. <apex:outputField value="{!ctrl.userInput}" />
- B. <apex:outputText value="{\$CurrentPage.parameters.userInput}"/>
- C. <apex:outputText escape="false" value="{\$CurrentPage.parameters.userInput}" />
- D. <apex:outputField escape="false" value="{!ctrl.userInput}" />

### **Q. 31**

**What will be the output in the debug log in the event of a QueryException during a call the aQuery method in the following example ?**

```
Class myClass {  
    Class CustomException extends QueryException {}  
  
    Public static Account aQuery {} {  
  
        Account theAccount;  
        try {  
            system.debug ('Querying Accounts.');//  
            theAccount = [SELECT Id FROM Account WHERE CreatedDate >TODAY];  
        }  
        catch (CustomEXCEPTION eX) {  
            system.debug ('Query Exception.');//  
        }  
        finally {  
            system.debug('Done.');//  
        }  
        return theAccount;  
    }  
}
```

- A. Querying Accounts, Custom Exception. Done.
- B. Querying Accounts, Query Exception. Done.**
- C. Querying Accounts, Custom Exception.
- D. Querying Accounts, Custom Exception.

### **Q. 33.**

**Which three code lines are required to create a lightning component on a Visualforce page?**

**Choose 3 answers**

- A. \$Lightning.use
- B. \$Lightning.useComponent
- C. <apex:includeLightning/>**
- D. <apex:slds/>
- E. \$Lightning.createComponent

**Q. 34.**

**Which statement describes the execution order when triggers are associated to the same object and event?**

- A. Trigger execution order cannot be guaranteed.
- B. Triggers are executed alphabetically by trigger name.
- C. Triggers are executed in the order they are created.
- D. Triggers are executed in the order they are modified.

**Q. 36.**

**A Licensed\_Professional\_c custom object exists in the system with two Master-Detail fields for the following objects: Certification\_c and Contact.**

**Users with the “Certification Representaive” role can access the Certification records they own and view related Licensed Professional records, however user with the “Sales Representative” role report they cannot view any Licensed Professional records even though they own the associated contact record.**

**What are two likely causes of users in the “Sales Representative” role not being able to access the Licensed Professional records ?**

**Choose two Answers**

- A. The organization recently modified the Sales Representative role to restrict Read/Write access to Licensed\_Professional\_c.
- B. The organization recently modified the Sales Representative role to restrict Read access to Licensed\_Professional\_c.
- C. The organization has private sharing model for Certification\_c, and Contact is the primary relationship in the Licensed\_Professional\_c object.
- D. The organization has private sharing model for Certification\_c, and Certification\_c is the primary relationship in the Licensed\_Professional\_c object.

**Q. 37.**

**What is a fundamental difference between a Master-Detail relationship and a Lookup relationship?**

- A. In a Master-Detail relationship, when a record of a master object is deleted, the detail records are not deleted.
- B. In a lookup relationship when the parent record is deleted, the child record are always deleted.
- C. In a lookup, the field value is mandatory.
- D. A Master-Detail relationship detail record inherits the sharing and security of its master record.

**1. A developer needs to implement the functionality for a service agent to gather multiple pieces of information from a customer to send a replacement credit card.**

**Which automation tool meets these requirements?**

- a. Approval Process
- b. Flow Builder
- c. Process Builder
- d. Lightning Component

**2. Cloud Kicks Fitness, an ISV Salesforce partner, is developing a managed package application. One of the application modules allows the user to calculate body fat using Apex class, BodyFat, and its method, calculateBodyFat(). The product owner wants to ensure this method is accessible by the consumer of the application when developing customizations outside the ISV's package namespace.**

**Which approach should a developer take to ensure calculateBodyFat() is accessible outside the package namespace?**

- a. Declare the class as global and use the public access modifier on the method.
- b. Declare the class and method using public access modifier.
- c. Declare the class as public and use the global access modifier on the method.
- d. Declare the class and method using the global access modifier.

**3. How can a developer check the test coverage of active Process Builders and Flows before deploying them in a change set?**

- a. Use the Flow Property Page
- b. Use the code coverage setup page.
- c. Use the ApexTestResult class.
- d. Use the SOQL and the Tooling API

**4. A developer must troubleshoot to pinpoint the causes of performance issues when a custom page loads in their org.**

**Which tool should a developer use to troubleshoot?**

- a. AppExchange
- b. Visual Studio Code IDE
- c. Developer Console
- d. Setup Menu

**5. Which Salesforce feature allows a developer to see when a user last logged in to Salesforce if real-time notification is not required?**

- A. Event Monitoring Log
- B. Calendar Events
- C. Developer Log
- D. Asynchronous Data Capture Events

**Q. 52**

**Which exception type cannot be caught?**

- A. NoAccessException
- B. CalloutException
- C. LimitException
- D. A custom Exception

**Q. 56**

**Which Apex class contains method to return the amount of resources that have been used for a particular governor, such as the number of DML statements?**

- A. Messaging
- B. OrgLimits
- C. Limits
- D. Exception

**Q. 57**

**Which Salesforce org has a complete duplicate copy of the production org including data and configuration?**

- A. Production
- B. Full Sandbox
- C. Developer Pro Sandbox
- D. Partial Copy Sandbox.

**Q. 59**

**How should a custom user interface be provided when a user edits an account in Lightning Experience?**

- A. Override the Account's Edit button with Lightning component.
- B. Override the Account's Edit button with a Lightning flow.
- C. Override the Account's Edit button with a Lightning page.
- D. Override the Account's Edit button with a Lightning Action.

**Q. 60**

**A Lightning component has a wired property, searchResults, that stores list of opportunities.**

**Which definition of the Apex method, to which the searchResults property is weird, should be used ?**

- A. @AuraEnabled (cacheable=false)  
public static List<Opportunity> search (string term) /\*implementation\*/
- B. @AuraEnabled (cacheable=false)  
public List<Opportunity> search (String term) /\*implementation\*/
- C. @AuraEnabled(cacheable=true)  
public List<Opportunity> search (String term) /\*implementation\*/
- D. @AuraEnabled (cacheable=true)  
public static List<Opportunity> search (String term) /\*implementation\*/

**61. Which two are the best practices when it comes to Aura component and application event handling?**

Choose 2 answers

- A. Reuse the event logic in a component bundle, by putting the logic in the helper
- B. Try to use application events as opposed to component events
- C. Use component events to communicate actions that should be handled at the application level
- D. Handle low-level events in the event handler and re-fire them as higher-level events

**62. Instead of sending emails to support personnel directly from Salesforce, Universal Containers wants to notify an external system in the event that an unhandled expectation occurs.**

What is the appropriate publish/subscribe logic to meet this requirement?

- A. Publish that error event using the Eventbus.publish() method and have the external system subscribe the event using CometD
- B. Publish the error event using the addError() method and write triggers to subscribe to the event and notify the external system
- C. Have the external system subscribe to the BatchApexError event, no publishing is necessary
- D. Publish the error event using the addError() method and have the external system subscribe to the event using CometD.

**63. Refer to the following code that runs in an Execute Anonymous block:**

```
For(List<Lead> thesetLeads : [SELECT LastName, company, Email FROM Lead LIMIT 20000]){

    For (LEAD thisLead : theseLeadds){

        If(thisLead.Email ==null)

            thisLead.Email = assignGenericEmail(thisLead.LastName, thisLead.company);
    }
}
```

```
}
```

**Database.Update(theseLeads,flase);**

**In an environment where the full results set is returned, what is a possible outcome of this code?**

- A. The total number of DML statements issued will be exceeded
- B. The total number of records processed as a result of DML statements will be exceeded
- C. The transaction will be succeeded, and the first ten thousand records will be committed to the database
- D. The transaction will be succeeded, and the full results set changes will be committed to the database.

**54. How does the Lightning Component framework help developers implement solutions faster?**

- A. By providing an Agile process with defaults steps
- B. By providing code review standards and processes
- C. By providing device-awareness for mobile and desktops
- D. By providing change history and version control

**50. Which two statements are true about Getter and Setter methods as they relate to Visualforce?**

**Choose 2 answers**

- A. Setter methods always have to be declared global
- B. There is no guarantee for the order in which Getter or Setter methods are executed
- C. Setter methods are required to pass a value from a page to a controller
- D. Getter methods can pass a value from a controller to a page

Q 47.

An org has an existing visual flow that creates an opportunity with an update records element. A developer must update the visual flow to also create a contact and store the created contact's ID on the opportunity.

Which update should the developer make in the visual flow?

- A. Add a new update records element.
- B. Add a new quick action (of type create) element.
- C. Add a new create records element.
- D. Add a new get records element.

Q 1.

The values 'High', 'Medium', and 'Low' are identified as common values for multiple picklists across different objects. What is an approach a developer can take to streamline maintenance of the picklists and their values, while also restricting the values to the ones mentioned above?

- A. Create a picklist on each object and use a global picklist value set containing the values.
- B. Create the picklist on each object as a required field and select "Display values alphabetically, not in the order entered".
- C. Create the picklist on each object and add a validation rule to ensure data integrity.
- D. Create the picklist on each object and select "Restrict picklist to the values defined in the value set".

Q 5.

Which three web technologies can be integrated into a visualforce page ?

Choose 3 answers.

- A. CSS
- B. JavaScript
- C. Java
- D. HTML
- E. PHP

Q 64.

Which aspect of apex programming is limited due to multitenancy?

- A. The number of records processed in a loop.
- B. The number of methods in an Apex Class.
- C. The number of active apex classes.
- D. The number of records returned from database queries.

Q 58.

What are two ways that a controller and extension can be specified on a visualforce page?

Choose 2 answers

- A. Apex:page standardController= "Account" extensions = "myControllerExtension"
- B. Apex:page = Account extends = "myControllerExtension"
- C. Apex:page controllers = "Account, myControllerExtension"
- D. Apex:page controller= "Account" extensions = "myControllerExtension".

**55. While writing an Apex class that creates Accounts, A developer wants to make sure that all required fields are handled properly. Which approach should the developer use to be sure that the Apex class works correctly?**

- A) Include a try/catch block to the Apex class.
- B) Run the code in an Execute Anonymous block.
- C) Add the business logic to the test class.
- D) Perform a code review with another developer.

**49. Universal Containers wants to back up all of the data and attachments in its Salesforce.org once a month.**

**Which approach should a developer use to meet this requirement?**

- A) Use the Data Loader command Line.
- B) Schedule a report.
- C) Create a Schedulable Apex class.
- D) Define a Data Export scheduled job.

**30. A developer is creating a page that allows users to create multiple Opportunities. The developer is asked to verify the current user's default Opportunity record type, and set certain default values based on the record type before inserting the record.**

**How can the developer find the current user's default record type?**

- A) Query the Profile where the ID equals userInfo.getProfileID()and then use the profile.Opportunity.getDefaultRecordType() method.

B) Create the opportunity and check the opportunity.recordType before inserting, which will have the record ID of the current user's default record type.

C) Use the Schema.userInfo.Opportunity.getDefaultRecordType() method.

D) Use Opportunity.SObjectType.getDescribe().getRecordTypeInfos to get a list of record types, and iterate through them until isDefaultRecordTypeMapping() is true.

**27. A developer needs to prevent the creation of Request\_c records when certain conditions exist in the system. A**

RequestLogic class exists that checks the conditions.

**What is the correct implementation?**

A) trigger RequestTrigger on Request\_c (before insert) {  
    RequestLogic.validateRecords(trigger.new);  
}

B) trigger RequestTrigger on Request\_c (before insert) {  
    if (RequestLogic.isValid(Request\_c))  
        Request.addError('Your request cannot be created at this time.');//  
    }  
}

C) trigger RequestTrigger on Request\_c (after insert) {  
    if (RequestLogic.isValid(Request\_c))  
        Request.addError('Your request cannot be created at this time.');//  
    }

D) trigger RequestTrigger on Request\_c (after insert) {  
    RequestLogic.validateRecords(trigger.new);  
}

**2. Universal Containers wants Opportunities to be locked from editing when reaching the Closed/Won stage.**

**Which two strategies can a developer use to accomplish this?**

Choose two answers

- A) Use the Process Automation settings.
- B) Use Flow Builder.
- C) Use a validation rule.

D) Use a trigger.

## **Platform Developer\_1 Exam taken 30 August candidate pass**

1. A custom picklist field, food\_preference\_c, exists on a custom object. The picklist contains the following options; ‘vegan’, ‘kosher’, ‘no preference’. The developer must ensure a value is populated every time a record is created or updated. What is the most efficient way to ensure a value is selected every time a record is saved?

- Mark the field as required on the field definition.

2. Which three code lines are required to create a Lightning component on a Visualforce page? Choose 3 answers.

<apex:includeLightning/>  
\$Lightning.createComponent

`$Lightning.use`

3. A developer must troubleshoot to pinpoint the causes of performance issues when a custom page loads in their org. Which tool should the developer use to troubleshoot?

- Developer Console

4. order of execution in salesforce

- Validation rule,trigger,workflow,process builder,commit

5. The following Apex method is part of the contactservice class that is called from a trigger.

```
Public Static Void setBusinessUnitToEMEA(Contact  
thisContact) { thisContact.Business_Unit_c = 'EMEA';  
update thisContact;  
}
```

How should the developer modify the code to ensure best practices are met?

```
Public Static void setBusinessUnitToEMA(List<contact>  
contacts) { for (contact thisContact : contacts) {  
thisContact ,Business)_Unit c = 'EMEA' ;  
}  
update contacts;  
}
```

6. Universal Containers has as large number of custom applications that were built using a third-party JavaScript framework and exposed using Visualforce pages. The company wants to update these applications to apply styling that resembles the look and feel of Lightning Experience. What should the developer do to fulfil the business request in the quickest and most effective manner?

- Incorporate the salesforce Lightning Design System CSS stylesheet into the Javascript applications.

7. An approval Process is defined in the Expense\_Report c object. A business rule idictates that whenever a user changes the status to 'submitted' on an Expense\_Report c record, all

the Expense\_item\_c records related to the expense report must enter the approval process individually. Which approach should be used to ensure the business requirement is met?

- Create a process Builder on Expense\_Report c with a 'submit for approval' action type to submit all related Expense\_Item c records when the criteria is met.

8.A developer must create an Apex class, contactcontroller, that a Lightning component can use to search for Contact records. User of the Lightning component should only be able to search Contact records to which they have access. Which two will restrict the records correctly?

- Public inherited sharing class ContactController.
- Public with sharing class ContactController.

9. What is the maximum number of SOQL queries used by the following code? List<Account> aList = [SELECT Id From Account  
LIMIT 5] ;

```
for (Account a : aList) {  
    List <contact> cList = [SELECT Id From Contact WHERE AccountId = :a.Id];  
}
```

- 6

10. A developer created this Apex trigger that calls MyClass.myStaticMethod: trigger myTrigger on Contact (before insert){ MyClass.myStaticMethod(trigger.new, trigger.oldMap) ; }

The developer creates a testclass with a test method that calls MyClass.myStaticMethod, resulting in 81% overall code coverage. What happens when the developer tries to deploy the trigger and two classes to production, assuming no other code exists?

- The deployment fails because the Apex trigger has no code coverage

11. What are two ways a developer can get the status of an enqueued job for a class that implements the queueable interface?

- View the Apex Jobs page
- View the Apex Flex Queue.

12. How does the Lightning Component framework help developers implement solutions faster?

- By providing device-awareness for mobile and desktops

13 What are two ways for a developer to execute tests in an org?

- Tooling API
- Developer console

14. What is a fundamental difference b/w Master-Detail relationship and Lookup relationship?

- A Master-Detail relationship detail record inherits the sharing and security of its master record.

15. A developer writes a trigger on the Account object on the before update event that increments a count field. A workflow rule also increments the count field every time an Account is created or updated. The field update in the workflow rule is configured to not to re-evaluate workflow rules. What is the value of the count field if an Account is inserted with an initial value of zero, assuming no other automation logic is implemented on the Account?

- 4, check in dev console: 2

16. A licensed\_professional c custom object exists in the system with two master-detail fields for the following objects: Certification c and Contact. Users with the 'certification representative' role can access the certification records they own and view the related licensed professional records, however, users with the sales representative role report they cannot view any licensed professional records even though they own the associated contact record. What are two likely causes of users in the 'sales reps' role not being able to access the licensed professional records?

- The Organization recently modified the sales reps role to restrict read/write access to licensed\_professional c

- The org has a private sharing model for Certification c and certification c is the primary relationship in the licensed-professional c object.

17. Which three steps allow a custom SVG to be included in a Lightning web component? Choose 3 answers

- Upload the SVG as a static resource
- Import the static resource and provide a getter for it in JavaScript
- Reference the getter in the HTML template

18. Which process automation should be used to send an outbound message without using Apex code?

- Workflow Rule

19. A developer is tasked to perform a security review of the ContactSearch Apex class that exists in the system. Within the class, the developer identifies the following method as a security threat.

```
List<Contact> performSearch(String lastname){  
    Return Database.query('SELECT Id, FirstName, LastName FROM  
    Contact WHERE LastName like %' + LastName + '%');  
}
```

What are two ways the developer can update the method to prevent a SOQL injection attack? Choose 2 answers

- Use variable binding and replace the dynamic query with a static SOQL.
- Use the escapeSingleQuotes method to sanitize the parameter before its use.

20. A developer uses a loop to check each Contact in a list. When a Contact with the Title of "Boss" is found, the Apex method should jump to the first line of code outside of the for loop.

Which Apex solution will let the developer implement this requirement?

- break;

21. The values "High", "Medium", and "Low" are identified as common values for multiple picklists across different objects.

What is an approach a developer can take to streamline maintenance of the picklists and their values, while also restricting the values to the ones mentioned above?

- Create the picklist on each object and use a Global Picklist Value Set containing the values.

22. Which aspect of Apex programming is limited due to multitenancy?

- The number of records returned from database queries

23. Universal Containers has an order system that uses an Order Number to identify an order for customers and service agents. Order records will be imported into Salesforce. How should the order number field be defined in Salesforce?

- **Number with External ID**

24. A Visual Flow uses an Apex Action to provide additional information about multiple Contacts stored in a custom class, ContactInfo.

Which is the correct definition of the Apex method that gets the additional information?

- `@InvocableMethod(label='Additional Info')  
Public static List<ContactInfo> getInfo(List<Id> contactIds)  
{ /*implementation*/ }`

25. Universal Containers wants to back up all of the data and attachments in its Salesforce org once a month. Which approach should a developer use to meet this requirement?

#### **Define a Data Export scheduled job.**

26. Assuming that 'name' is a String obtained by an <apex:inputText> tag on a Visualforce page. Which two SOQL queries performed are safe from SOQL injections? Choose 2 answers

- `String query = 'SELECT Id FROM Account WHERE  
Name LIKE \'%' + String.escapeSingleQuotes(name)  
+ \'%\'`

`List<Account> results = Database.query(query);`

- `String query = '%' + name + '%';  
List<Account> results = [SELECT Id FROM Account  
WHERE Name LIKE 'query';`

27. A team of developers is working on a source-driven project that allows them to work independently, with many different org configurations.

Which type of Salesforce orgs should they use for their deployment?

- **Scratch Orgs**

28. Universal Containers (UC) uses a custom object called Vendor. The Vendor custom object has a Master-Detail relationship with the standard Account object. Based on some internal discussions, the UC administrator tried to change the Master-Detail relationship to a Lookup relationship but was not able to do so.

What is a possible reason that this change was not permitted?

**The Account records contain Vendor Roll-Up Summary fields.**

29. Which three process automations can immediately send an email notification to the owner of an Opportunity when its amount is changed to be greater than \$10,000? Choose 3 answers

**Process Builder**

**Workflow Rule**

**Escalation Rule**

30. A development team wants to use a deployment script to automatically deploy to a sandbox during their development cycles. Which should they use to deploy to the sandbox?

**Ant Migration Tool**

31. A developer has to identify a method in an Apex class that performs resource intensive actions in memory by iterating over the result set of a SOQL statement on the Account. The method also performs a DML statement to save the changes to the database.

Which two techniques should the developer implement as a best practice to ensure transaction control and avoid exceeding governor limits? Choose 2 answers

**Use the System.Limit class to monitor the current CPU governor limit consumption.**

**Use the Database.Savepoint method to enforce database integrity.**

32. Which three data types can a SOQL query return? Choose 3 answers

**Integer**

**sObject**

**List of sObjects**

33. Which code should be used to update an existing Visualforce page that uses standard Visualforce components so that the page matches the look and feel of Lightning Experience?

**<apex:page lightningStyleSheets="true">**

34. Which statement generates a list of Leads and Contacts that have a field with the phrase 'ACME'?

**List<List <sObject>> searchList = [FIND “\*ACME\*” IN ALL FIELDS RETURNING Contact, Lead];**

35. A developer writes a single trigger on the Account object on the after insert and after update events. A workflow rule modifies a field every time an Account is created or updated.

How many times will the trigger fire if a new Account is inserted, assuming no other automation logic is implemented on the Account?

**2**

36. A developer has the following requirements:

- Calculate the total amount on an order.

- Calculate the line amount for each line item based on quantity selected and price.
- Move line items to a different order if a line item is not in stock.  
Which relationship implementation supports these requirements?

**Line Item has a Master-Detail field to Order and the Master can be re-parented.**

37. Which code in a Visualforce page and /or controller might present a security vulnerability?

```
<apex:outputText escape="false"
value="{!!$CurrentPage.parameters.UserInput}">
</apex:outputText>
```

38. A lightning component has a wired property, searchresults, that stores a list of opportunities. which definition of the apex method, to which the searchresults property is wired, should be used?

- `@auraenabled(cacheable=true)`
- `public static list<Opportunity> search (string term) /*implementation*/;`

39. If Apex code executes inside the execute() method of an apex class when implementing the Batchable interface, which two statements are true regarding governor limits?

- The Apex governor limits might be higher due to the asynchronous nature of the transaction
- The Apex governor limits are reset for each iteration of the execute() method.

40. What should be enabled for working of Scratch org?

- Developer hub (Dev Hub)

41. How many accounts will be inserted by the following block of code?

```
for(Integer i = 0 ; i < 500; i++) {
    new Account(Name='New Account ' + i);
    Account a =
    insert a; }
```

- 0

42. Boolean odk;

```
Integer x;
if(abok=false;intege
r=x;){ X=1;
}elseif(abok=true;integer=x
;){ X=2;
}elseif(abok!=null;integer=x
;){ X=3;
}el
sei
f{
X=
4;}
```

- X=4

43. what are the three languages used in the visualforce page?

- Javascript, CSS, HTML

44. what are the methods used to show input in classic and lightning ?

- Use visualforce page in classic and lightning component in lightning

45. A developer has a VF page and custom controller to save Account records. The developer wants to display any validation rule violation to the user. How can the developer make sure that validation rule violations are displayed?

- Include <apex:messages> on the visualforce page.

46. A developer observes that an Apex test method fails in the sandbox. To identify the issue, the developer copies the code inside the test method and executes it via the execute anonymous tool in the dev console. the code then executes with no exception or errors. Why did the test method fail in the sandbox and pass in the dev console?

- The test method relies on existing data in the sandbox

47. A developer identifies the following triggers on the Expense\_c object:

```
DeleteExpense,  
applyDefaultstoex  
pense  
validateexpenseup  
date;
```

The triggers process before delete, before insert, and before update events respectively. Which two techniques should the developer implement to ensure trigger best practice are followed?

- Create helper classes to execute the appropriate logic when a record is saved
- unify all three triggers in a single trigger on the expense c object that includes all events

48. A developer wants to import 500 opportunity records into a sandbox

Why should the developer choose to use Data loader instead of data import wizard?

- Data import wizard does not support 'opportunities'

49. Universal Containers wants a list button to display a VF page that allows users to edit multiple records. Which VF feature supports this requirements?

- recordSetVar page attribute

50. A developer is debugging the following code to determine why accounts are not being created.

```
Account a =new  
account(name= 'a');  
database.insert(a,false);
```

How should the code be altered to help debug the issue?

- Add a try/catch around the insert method

51. what are two advantages of implementing the view layer of a SF application using aura component based development over VF?

- Self-contained and reusable units of an application
- rich component ecosystem

52. Universal containers implemented a private sharing model for the account object. A custom account search tool was developed with apex to help sales reps find accounts that match multiple criteria they specify. Since its release, users of the tool report they can see accounts they do not own. What should the developer use to enforce sharing permissions for the currently logged in user while using the custom search tool?

- use the 'with sharing' keyword on the class declaration

53 . A developer must create a creditcardpayment class that provides an implementation of an existing payment class. Which is the correct implementation.

- Public class creditcardpayment extends payment {  
public override void makepayment(decimal amount) /\*implementation\*/}

54. Which code displays the content of Visualforce page as PDF?

```
<apex:page renderAs="pdf">
```

55. A developer needs to implement the functionality for a service agent to gather multiple pieces of information from a customer in order to send a replacement credit card. Which automation tool meets these requirements?

### **Flow Builder**

56. What does the Lightning Component framework provide to developers?

### **Prebuilt components that can be reused**

57. Which three operations affect the number of times a trigger can fire? Choose 3 answers

### **Workflow Rules**

### **Process Flows**

### **Roll-up Summary fields**

58. Which two are phases in the Salesforce Application Event propagation framework? Choose 2 answer

**Bubble**

**Default**





## **Platform Developer\_1 Exam taken 24 August candidate pass**

1. A developer must create a DrawList class that provides capabilities defined in the Sortable and Drawable interfaces.

```
Public interface
    Sortable ( Void
        sort();
    )
Public interface
    Drawable ( Void
        draw();
    )
```

Which is the correct implementation?

```
Public class DrawList implements
Sortable, Drawable { Public void
sort() { /*implementation*/ } Public
void draw() { /*implementation*/ }
}
```

2. Given the following anonymous Block:

```
List<Case> casesToUpdate = new List<Case>();
For(Case thisCase : [SELECT Id, Status FROM Case
LIMIT 50000)){ thisCase.Status = 'Working' ;
casesToUpdate.add(thisCase);
}
Try{
    Database.update(casesToUpdate,false);
}catch(Exception e){
    System.debug(e.getmessag
e());
}
```

What should a developer consider for an environment that has over 10,000 case records?

**The transaction will succeed and changes will be committed.**

3. A developer needs to prevent the creation of Request records when certain conditions exist in the system. A Request Logic class exists that checks the conditions. What is the correct implementation?

```
Trigger RequestTrigger on Request
(before insert) {
    RequestLogic.validateRecords(trigge
r.new);
}
```

4. Universal Containers stores the availability date on each Line Item of an Order and Orders are only shipped when all of the Line Items are available. Which method should be used to calculate the estimated ship date for an Order?

**Use a Max Roll-Up Summary field on the latest availability date fields.**

5. Which exception type cannot be caught

## **LimitException**

6. A developer needs to confirm that a Contact trigger works correctly without changing the organization's data. What should the developer do to test the Contact trigger?

**Use the Test menu on the Developer Console to run all test classes for the Contact trigger.**

7. A developer wants to retrieve the Contact and Users with the email address 'dev@uc.com'. Which SOSL statement should the developer use?

**FIND {dev@uc.com} IN Email Fields RETURNING Contact (Email), User (Email)**

8. A developer has an Apex controller for a Visualforce page that takes an ID as a URL parameter. How should the developer prevent a cross site scripting vulnerability?

**String.escapeSingleQuotes(ApexPages.currentPage().getParameters().get('url\_parameter'))**

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**Apex Jobs**

**Apex Flex Queue**

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Name

Amount

t

Account

t

Which two methods should the developer implement to fulfill the business requirement? Choose 2 answers

Create a Visualforce page that performs the HTTP REST callout, and use a Visualforce quick action to expose component on the Opportunity detail page.

Create a Lightning component that performs the HTTP REST callout, and use a Lightning Action to expose component on the Opportunity detail page.

11. A developer needs to have records with specific field values in order to test a new Apex class. What should the developer do to ensure the data is available to the test?

**Use Test.loadData() and reference a static resource.**

12. A developer wants to get access to the standard price book in the org while writing a test class that covers an OpportunityLineItem trigger. Which method allows

access to the price book?

**Use Test.getStandardPricebookId() to get the standard price book ID.**

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14. A developer is asked to create a Visualforce page that displays some Account fields as well as fields configured on the page layout for related Contacts.

How should the developer implement this request?

**Use the <apex:relatedList> tag**

15. The Job\_Application c custom object has a field that is a Master-Detail relationship to the Contact object, where the Contact object is the Master. As part of a feature implementation, a developer needs to retrieve a list containing all Contact records where the related Account Industry is 'Technology' while also retrieving the Contact's Job\_Application c records.

Based on the object's relationships, what is the most efficient statement to retrieve the list of contacts?

**(SELECT Id, (SELECT Id FROM Job\_Application r) FROM Contact WHERE Account.Industry = 'Technology');**

16. Universal Containers decides to use exclusively declarative development to build out a new Salesforce application. Which three options should be used to build out the database layer for the application? Choose 3 answers

**Relationships**

**Custom Objects and Fields**

**Roll-Up Summaries**

17. A developer creates a new Apex trigger with a helper class, and writes a test class that only exercises 95% coverage of the new Apex helper class. Change set deployment to production fails with the test coverage warning:

“Test coverage of selected Apex Trigger is 0%, at least 1% test coverage is required.” What should the developer do to successfully deploy the new Apex trigger and helper class?

**Create a test class and methods to cover the Apex trigger.**

18. What are three ways for a developer to execute tests in an org? Choose 3 answers

**Tooling API**

**Setup Menu**

**SalesforceDX**

19. A developer is implementing an Apex class for a financial system. Within the class, the variables ‘creditAmount’ and ‘debtAmount’ should not be able to change once a value is assigned. In which two ways can the developer declare the variables to ensure their value can only be assigned one time? Choose 2 answers

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**Use the final keyword and assign its value in the class constructor.**

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Which field should the developer add to create the most efficient model that supports the business need?

**Add a Master-Detail field on the Global Address object to the Account object.**

21. How should a custom user interface be provided when a user edits an Account in Lightning Experience?

**Override the Account’s Edit button with a Lightning Component.**

22. Given the following block of code:

```
Try{  
    List<Accounts> retrieveRecords = [SELECT Id FROM  
    Account WHERE Website = null];  
} catch(Exception e){  
    //manage exception logic  
}
```

What should a developer do to ensure the code execution is disrupted if the retrieveRecords list remains empty after the SOQL query?

**Check the state of the retrievedRecords variable and throw a custom exception if the variable is empty.**

23A recursive transaction is initiated by a DML statement creating records for these two objects:

## 1. Accounts

## 2. Contacts

The Account trigger hits a stack depth of 16.

Which statement is true regarding the outcome of the transaction?

**The transaction succeeds and all changes are committed to the database.**

24. A developer created a Visualforce page and custom controller to display the Account type field as shown below.

Custom controller code:

```
public class customCtrlr{  
    private Account  
    theAccount; public String  
    actType;  
  
    public customCtrlr(){  
        theAccount = (SELECT Id, Type FROM Account  
            WHERE Id =  
                :ApexPages.currentPage().getParameters().get('id'));  
        actType = theAccount.Type;  
    }  
}
```

Visualforce page snippet:

The Account Type is {!actType}

The value of the account type field is not being displayed correctly on the page. Assuming the custom controller is properly referenced on the Visualforce page, what should the developer do to correct the problem?

**Add a getter method for the actType attribute.**

25. A developer must implement a CheckPaymentProcessor class that provides check processing payment capabilities that adhere to what is defined for payments in the PaymentProcessor interface.

```
public interface  
    PaymentProcessor { void  
        pay(Decimal amount);  
    }
```

Which is the correct implementation to use the PaymentProcessor interface class?

**Public class CheckPaymentProcessor implements PaymentProcessor {  
 Public void pay(Decimal amount) {}  
}**

26. What are three considerations when using the @InvocableMethod annotation in Apex? Choose 3 answers

**A method using the @InvocableMethod annotation can be declared as Public or Global.**

**Only one method using the @InvocableMethod annotation can be defined per Apex class.**

**A method using the @InvocableMethod annotation must be declared as static.**

27. Which two events need to happen when deploying to a production org? Choose 2 answers

**All triggers must have at least 1% test coverage.**

**All Apex code must have at least 75% test coverage.**

28. Application Events follow the traditional publish-subscribe model. Which method is used to fire an event?

**Fire()**

29. Given the following trigger implementation:

```
trigger leadTrigger on Lead (before update){  
    final ID BUSINESS_RECORDTYPEID = '01250000009Qad';  
  
    for(Lead thisLead : Trigger.new){  
        if(thisLead.Company !=null && thisLead.RecordTypeId !=  
            BUSINESS_RECORDTYPEID){  
            thisLead.RecordTypeId = BUSINESS_RECORDTYPEID;  
        }  
    }  
}
```

The developer receives deployment errors every time a deployment is attempted from sandbox to production.

What should a developer do to ensure a successful deployment?

**Ensure BUSINESS\_RECORDTYPEID is published as part of the deployment components.**

30. An org has an existing Visual Flow that creates an Opportunity with an Update Records element. A developer must update the Visual Flow to also create a Contact and store the created Contact ID's on the Opportunity.

Which update should the developer make in the Visual Flow?

**Add a new Create Records element.**

31. When a user edits the Postal Code on an Account, a custom Account text field named "Timezone" must be updated based on the values in a PostalCodeToTimezone\_c custom object. How should a developer implement this feature?

**Build an Account custom trigger.**

32. A Next Best Action strategy uses an Enhance Element that invokes an Apex method to determine a discount level for a Contact, based on a number of factors.

What is the correct definition of the Apex method?

**@InvocableMethod**

**global static**

**List<List<Recommendation>>**

```
getLevel(List<ContactWrapper>  
input)  
{ /* implementation */}
```

**Notes:** The Enhance element can pass any number of inputs to the Apex action. The input parameter must be a list or a list of lists of a user-defined Apex object (for example, a custom class called DataContainer).  
A developer is writing tests for a class and needs to insert records to validate functionality. Which annotation method should be used to create records for every method in the test class?

• **@TestSetup**

34. An apex method, getaccounts, that returns a list of accounts given a searchTerm, is available for lightning web components to use. What is the correct definition of a lightning web component property that uses the GetAccounts method?

• **@wire(getAccounts, { searchTerm:  
'\$searchTerm'}) AccountList;**

35. What will be the output in the debug log in the event of a QueryException during a call to the @query

method in the following

```
Example? Class myClass {  
    class customexception extends  
    queryException {} public static accounts  
    @query() {  
        account  
        theaccount; try (  
        -  
        - - -  
        - - -  
        - - -  
        finally {  
            system.debug('Done.');//  
        }  
        return theAccount;  
    }  
}
```

• **Querying Accounts. Query Exception. Done**

36. Which salesforce feature allows a developer to see when a user last logged into salesforce if real-time notification is not required?

• **Event monitoring log**

37. A developer must create a shippingCalculator class that cannot be instantiated and must include a working default implementation of a calculate method, that sub-classes can override.

• **Public abstract class shippingCalculator {  
public virtual void calculate() /\*implmentation\*/ }**

38. A developer has an integer variable called MaxAttempts. The developer needs to ensure that once maxAttempts is initialized, it preserves its value for the length of the Apex

transaction; while being able to share the variable's state between trigger executions. How should the developer declare maxAttempts to meet these requirements?

- Declare maxAttempts as a constant using the static and final keywords.

39. Which salesforce org has a complete duplicate copy of the production org including data and configuration?

- Full Sandbox

40.A developer must modify the following code snippet to prevent the number of SOQL queries issued from exceeding the platform governor limit.

- Refactor the code above to perform only one SOQL query, filtering by the set of opportunityIds.

41. Universal Containers stores orders and line Items in SF. For security reasons, financial reps are allowed to see information on the order such as order amount, but they aren't allowed to see the line items on the order. Which type of relationship should be used?

- Lookup

42. Which three statements are true regarding custom exceptions in Apex?

- Custom Exception class name must end with 'Exception'
- Custom Exception class must extend the system Exception class
- Custom Exception class can implement one or many Interfaces

43. Given the following Apext statement:

Account myAccount = [select ID, name from account] ;

What occurs when more than one account is returned by the SOQL query?

- An unhandled exception is thrown and the code terminates

44. A developer must create a lightning component that allows users to input contact record information to create a contact record, including a salary c custom field. what should the developer use, along with a lightning-record-edit form, so that salary c field functions as a currency input and is only viewable and editable by users that have the correct field level

permissions on salary\_C?

- <lightning-input type="number" value= "salary\_c" formatter="currency">  
  </lightning-input>



# Platform Developer 1 Exam Question and Answers SP20

## Exam Taken 22<sup>nd</sup> April, 2020

1. Which three steps allow a custom SVG to be included in a Lightning web component?  
Choose 3 answers

- Upload the SVG as a static resource
- Import the static resource and provide a getter for it in JavaScript
- Reference the getter in the HTML template

2. Which process automation should be used to send an outbound message without using Apex code?

- Workflow Rule

3. A developer is tasked to perform a security review of the ContactSearch Apex class that exists in the system. Within the class, the developer identifies the following method as a security threat.

```
List<Contact> performSearch(String lastname){  
    Return Database.query(SELECT Id, FirstName, LastName FROM Contact WHERE  
    LastName like %' + LastName + '%');  
}
```

What are two ways the developer can update the method to prevent a SOQL injection attack? Choose 2 answers

- Use variable binding and replace the dynamic query with a static SOQL.
- Use the escapeSingleQuotes method to sanitize the parameter before its use.

4. A developer uses a loop to check each Contact in a list. When a Contact with the Title of "Boss" is found, the Apex method should jump to the first line of code outside of the for loop.

Which Apex solution will let the developer implement this requirement?

- break;

5. The values "High", "Medium", and "Low" are identified as common values for multiple picklists across different objects.

What is an approach a developer can take to streamline maintenance of the picklists and their values, while also restricting the values to the ones mentioned above?

- Create the picklist on each object and use a Global Picklist Value Set containing the values.

6. Which aspect of Apex programming is limited due to multitenancy?

- The number of records returned from database queries

7. Universal Containers has an order system that uses an Order Number to identify an order for customers and service agents. Order records will be imported into Salesforce. How should the order number field be defined in Salesforce?

- **Number with External ID**

8. A Visual Flow uses an Apex Action to provide additional information about multiple Contacts stored in a custom class, ContactInfo.
- Which is the correct definition of the Apex method that gets the additional information?

- ```
@InvocableMethod(label='Additional Info')
Public static List<ContactInfo> getInfo(List<Id> contactIds)
    /*implementation*/ }
```

9. Universal Containers wants to back up all of the data and attachments in its Salesforce org once a month. Which approach should a developer use to meet this requirement?

**Define a Data Export scheduled job.**

10. Assuming that 'name' is a String obtained by an <apex:inputText> tag on a Visualforce page. Which two SOQL queries performed are safe from SOQL injections? Choose 2 answers
- ```
String query = 'SELECT Id FROM Account WHERE Name LIKE \'%' +
String.escapeSingleQuotes(name) + '%\''
List<Account> results = Database.query(query);
```

- ```
String query = '%' + name + '%';
List<Account> results = [SELECT Id FROM Account WHERE Name LIKE
query];
```

11. A team of developers is working on a source-driven project that allows them to work independently, with many different org configurations.

Which type of Salesforce orgs should they use for their deployment?

- **Scratch Orgs**

12. Which code displays the content of Visualforce page as PDF?

- ```
<apex:page renderAs="pdf">
```

13. A developer needs to implement the functionality for a service agent to gather multiple pieces of information from a customer in order to send a replacement credit card. Which automation tool meets these requirements?

- **Flow Builder**

14. What does the Lightning Component framework provide to developers?

- **Prebuilt components that can be reused**

15. Which three operations affect the number of times a trigger can fire? Choose 3 answers

- **Workflow Rules**
- **Process Flows**
- **Roll-up Summary fields**

16. Which two are phases in the Salesforce Application Event propagation framework? Choose 2 answers

- Bubble
- Default

17. A developer must create a DrawList class that provides capabilities defined in the Sortable and Drawable interfaces.

```
Public interface Sortable (
    Void sort();
)
Public interface Drawable (
    Void draw();
)
```

Which is the correct implementation?

- **Public class DrawList implements Sortable, Drawable {**

```
    Public void sort() { /*implementation*/ }
    Public void draw() { /*implementation*/ }
}
```

18. Given the following anonymous Block:

```
List<Case> casesToUpdate = new List<Case>();
For(Case thisCase : [SELECT Id, Status FROM Case LIMIT 50000)){
    thisCase.Status = 'Working' ;
    casesToUpdate.add(thisCase);
}
Try{
    Database.update(casesToUpdate,false);
}catch(Exception e){
    System.debug(e.getMessage());
}
```

What should a developer consider for an environment that has over 10,000 case records?

- **The transaction will succeed and changes will be committed.**

19. A developer needs to prevent the creation of Request records when certain conditions exist in the system. A Requestlogic class exists that checks the conditions. What is the correct implementation?

- **Trigger RequestTrigger on Request (before insert) {**

```
    RequestLogic.validateRecords(trigger.new);
}
```

20. Universal Containers stores the availability date on each Line Item of an Order and Orders are only shipped when all of the Line Items are available. Which method should be used to calculate the estimated ship date for an Order?

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- **Apex Jobs**
- **Apex Flex Queue**

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Amount

Account

Which two methods should the developer implement to fulfill the business requirement? Choose 2 answers

- Create a Visualforce page that performs the HTTP REST callout, and use a Visualforce quick action to expose component on the Opportunity detail page.
- Create a Lightning component that performs the HTTP REST callout, and use a Lightning Action to expose component on the Opportunity detail page.

27. A developer needs to have records with specific field values in order to test a new Apex class. What should the developer do to ensure the data is available to the test?

- **Use Test.loadData() and reference a static resource.**

28. Universal Containers (UC) uses a custom object called Vendor. The Vendor custom object has a Master-Detail relationship with the standard Account object. Based on some internal discussions, the UC administrator tried to change the Master-Detail relationship to a Lookup relationship but was not able to do so.

What is a possible reason that this change was not permitted?

- The Account records contain Vendor Roll-Up Summary fields.

29. Which three process automations can immediately send an email notification to the owner of an Opportunity when its amount is changed to be greater than \$10,000? Choose 3 answers

- Process Builder
- Workflow Rule
- Escalation Rule

30. A development team wants to use a deployment script to automatically deploy to a sandbox during their development cycles. Which should they use to deploy to the sandbox?

- Ant Migration Tool

31. A developer has to identify a method in an Apex class that performs resource intensive actions in memory by iterating over the result set of a SOQL statement on the Account. The method also performs a DML statement to save the changes to the database.

Which two techniques should the developer implement as a best practice to ensure transaction control and avoid exceeding governor limits? Choose 2 answers

- Use the System.Limit class to monitor the current CPU governor limit consumption.
- Use the Database.Savepoint method to enforce database integrity.

32. Which three data types can a SOQL query return? Choose 3 answers

- Integer
- sObject
- List of sObjects

33. Which code should be used to update an existing Visualforce page that uses standard Visualforce components so that the page matches the look and feel of Lightning Experience?

- <apex:page lightningStyleSheets="true">

34. Which statement generates a list of Leads and Contacts that have a field with the phrase 'ACME'?

- List<List <sObject>> searchList = [FIND '\*ACME\*' IN ALL FIELDS RETURNING Contact, Lead];

35. A developer writes a single trigger on the Account object on the after insert and after update events. A workflow rule modifies a field every time an Account is created or updated.

How many times will the trigger fire if a new Account is inserted, assuming no other automation logic is implemented on the Account?

- 2

36. A developer has the following requirements:

- Calculate the total amount on an order.

- Calculate the line amount for each line item based on quantity selected and price.
- Move line items to a different order if a line item is not in stock.  
Which relationship implementation supports these requirements?

- **Line Item has a Master-Detail field to Order and the Master can be re-parented.**

37. Which code in a Visualforce page and /or controller might present a security vulnerability?

- `<apex:outputText escape="false" value="{!!$CurrentPage.parameters.UserInput}" />`

38. A developer wants to get access to the standard price book in the org while writing a test class that covers an OpportunityLineItem trigger. Which method allows access to the price book?

- **Use Test.getStandardPricebookId() to get the standard price book ID.**

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    public String actType;  
  
    public customCtrlr(){  
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        actType = theAccount.Type;  
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Visualforce page snippet:

The Account Type is {!actType}

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Which is the correct implementation to use the PaymentProcessor interface class?

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        if(thisLead.Company !=null && thisLead.RecordTypeId !=  
        BUSINESS_RECORDTYPEID){  
            thisLead.RecordTypeId = BUSINESS_RECORDTYPEID;  
        }  
    }  
}
```

The developer receives deployment errors every time a deployment is attempted from sandbox to production.

What should a developer do to ensure a successful deployment?

- Ensure `BUSINESS_RECORDTYPEID` is published as part of the deployment components.

56. An org has an existing Visual Flow that creates an Opportunity with an Update Records element. A developer must update the Visual Flow to also create a Contact and store the created Contact ID's on the Opportunity.

Which update should the developer make in the Visual Flow?

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What is the correct definition of the Apex method?

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global static List<List<Recommendation>>  
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- **@wire(getAccounts, { searchTerm: '\$searchTerm'})  
AccountList;**

63. What will be the output in the debug log in the event of a QueryException during a call to the @query

method in the following Example?

```
Class myClass {  
    class customeexception extends queryException {}  
    public static accounts @query() {  
        account theaccount;  
        try (  
            -  
            ----  
            ---  
            ---  
        finally {  
            system.debug('Done.');//  
        }  
        return theAccount;  
    }  
}
```

- **Querying Accounts. Query Exception. Done**

64. Which salesforce feature allows a developer to see when a user last logged into salesforce if real-time notification is not required?

- **Event monitoring log**

65. A developer must create a shippingCalculator class that cannot be instantiated and must include a working default implementation of a calculate method, that sub-classes can override.

- **Public abstract class shippingCalculator {  
public virtual void calculate() /\*implementation\*/ }**

**66.** A developer has an integer variable called MaxAttempts. The developer needs to ensure that once maxAttempts is initialized, it preserves its value for the length of the Apex transaction; while being able to share the variable's state between trigger executions. How should the developer declare maxAttempts to meet these requirements?

- Declare maxAttempts as a constant using the static and final keywords.

**67.** Which salesforce org has a complete duplicate copy of the production org including data and configuration?

- Full Sandbox

**68.** A developer must modify the following code snippet to prevent the number of SOQL queries issued from exceeding the platform governor limit.

- Refactor the code above to perform only one SOQL query, filtering by the set of opportunityIds.

**69.** Universal Containers stores orders and line items in SF. For security reasons, financial reps are allowed to see information on the order such as order amount, but they aren't allowed to see the line items on the order. Which type of relationship should be used?

- Lookup

**70.** Which three statements are true regarding custom exceptions in Apex?

- Custom Exception class name must end with 'Exception'
- Custom Exception class must extend the system Exception class
- Custom Exception class can implement one or many Interfaces

**71.** Given the following Apex statement:

Account myAccount = [select ID, name from account];

What occurs when more than one account is returned by the SOQL query?

- An unhandled exception is thrown and the code terminates

**72.** A developer has a VF page and custom controller to save Account records. The developer wants to display any validation rule violation to the user. How can the developer make sure that validation rule violations are displayed?

- Include <apex:messages> on the visualforce page.

**73.** A developer observes that an Apex test method fails in the sandbox. To identify the issue, the developer copies the code inside the test method and executes it via the execute anonymous tool in the dev console. The code then executes with no exception or errors. Why did the test method fail in the sandbox and pass in the dev console?

- The test method relies on existing data in the sandbox

**74.** A developer identifies the following triggers on the Expense\_c object:

```
DeleteExpense,  
applyDefaultstoexpense  
validateexpenseupdate;
```

The triggers process before delete, before insert, and before update events respectively. Which two techniques should the developer implement to ensure trigger best practice are followed?

- Create helper classes to execute the appropriate logic when a record is saved
- unify all three triggers in a single trigger on the expense c object that includes all events

75. A developer wants to import 500 opportunity records into a sandbox

Why should the developer choose to use Data loader instead of data import wizard?

- Data import wizard does not support 'opportunities'

76. Universal Containers wants a list button to display a VF page that allows users to edit multiple records. Which VF feature supports this requirements?

- recordSetVar page attribute

77. A developer is debugging the following code to determine why accounts are not being created.

```
Account a =new account(name= 'a');  
database.insert(a,false);
```

How should the code be altered to help debug the issue?

- Add a try/catch around the insert method

78. what are two advantages of implementing the view layer of a SF application using aura component based development over VF?

- Self-contained and reusable units of an application
- rich component ecosystem

79. Universal containers implemented a private sharing model for the account object. A custom account search tool was developed with apex to help sales reps find accounts that match multiple criteria they specify. Since its release, users of the tool report they can see accounts they do not own. What should the developer use to enforce sharing permissions for the currently logged in user while using the custom search tool?

- use the 'with sharing' keyword on the class declaration

81. A developer must create a creditcardpayment class that provides an implementation of an existing payment class. Which is the correct implementation.

- PUblic class creditcardpayment extends payment {  
public override void makepayment(decimal amount) /\*implementation\*/}

82. A developer must create a lightning component that allows users to input contact record information to create a contact record, including a salary c custom field. what should the developer use, along with a lightning-record-edit form, so that salary c field functions as a currency input and is only viewable and editable by users that have the correct field level

permissions on salary\_C?

- <lightning-input type="number" value="salary\_c" formatter="currency">  
</lightning-input>

83. A lightning component has a wired property, searchresults, that stores a list of opportunities. Which definition of the apex method, to which the searchresults property is wired, should be used?

- @auraenabled(cacheable=true)  
public static list<Opportunity> search (string term) /\*implementation\*/

84. If Apex code executes inside the execute() method of an apex class when implementing the Batchable interface, which two statements are true regarding governor limits?

- The Apex governor limits might be higher due to the asynchronous nature of the transaction
- The Apex governor limits are reset for each iteration of the execute() method.

85. What should be enabled for working of Scratch org?

- Developer hub (Dev Hub)

86. How many accounts will be inserted by the following block of code? for(Integer i = 0 ; i < 500; i++) { Account a = new Account(Name='New Account ' + i); insert a; }

- 0

87. Boolean abok;

```
Integer x;
if(abok=false;integer=x;){
    X=1;
}elseif(abok=true;integer=x;){
    X=2;
}elseif(abok!=null;integer=x;){
    X=3;
}elseif{
    X=4;
}
```

- X=4

88. What are the three languages used in the visualforce page?

- Javascript, CSS, HTML

89. What are the methods used to show input in classic and lightning?

- Use visualforce page in classic and lightning component in lightning

90. Which three code lines are required to create a Lightning component on a Visualforce page? Choose 3 answers.

- <apex:includeLightning/>
- \$Lightning.createComponent

- \$Lightning.use

91. A developer must troubleshoot to pinpoint the causes of performance issues when a custom page loads in their org. Which tool should the developer use to troubleshoot?

- Developer Console

92. order of execution in salesforce

- Validation rule,trigger,workflow,process builder,commit

93. The following Apex method is part of the contactservice class that is called from a trigger.

```
Public Static Void setBusinessUnitToEMEA(Contact thisContact) {  
    thisContact.Business_Unit = 'EMEA';  
    update thisContact;  
}
```

How should the developer modify the code to ensure best practices are met?

```
Public Static void setBusinessUnitToEMEA(List<contact> contacts) {  
    for (contact thisContact : contacts) {  
        thisContact.Business_Unit = 'EMEA';  
    }  
    update contacts;  
}
```

94. Universal Containers has a large number of custom applications that were built using a third-party JavaScript framework and exposed using Visualforce pages. The company wants to update these applications to apply styling that resembles the look and feel of Lightning Experience. What should the developer do to fulfil the business request in the quickest and most effective manner?

- Incorporate the salesforce Lightning Design System CSS stylesheet into the Javascript applications.

95. An approval Process is defined in the Expense\_Item\_\_c object. A business rule dictates that whenever a user changes the status to 'submitted' on an Expense\_Report c record, all

the Expense\_item\_c records related to the expense report must enter the approval process individually. Which approach should be used to ensure the business requirement is met?

- Create a process Builder on Expense\_Report\_c with a ‘submit for approval’ action type to submit all related Expense\_Item\_c records when the criteria is met.

96. A developer must create an Apex class, contactcontroller, that a Lightning component can use to search for Contact records. User of the Lightning component should only be able to search Contact records to which they have access. Which two will restrict the records correctly?

- Public inherited sharing class ContactController.
- Public with sharing class ContactController.

97. What is the maximum number of SOQL queries used by the following code?

```
List<Account> aList = [SELECT Id From Account LIMIT 5] ;  
for (Account a : aList) {  
    List <contact> cList = [SELECT Id From Contact WHERE AccountId = :a.Id];  
}
```

- 6

98. A developer created this Apex trigger that calls MyClass.myStaticMethod:

```
trigger myTrigger on Contact (before insert){  
    MyClass.myStaticMethod(trigger.new, trigger.oldMap) ;  
}
```

The developer creates a testclass with a test method that calls MyClass.myStaticMethod, resulting in 81% overall code coverage. What happens when the developer tries to deploy the trigger and two classes to production, assuming no other code exists?

- The deployment fails because the Apex trigger has no code coverage

99. What are two ways a developer can get the status of an enqueued job for a class that implements the queueable interface?

- View the Apex Jobs page

- View the Apex Flex Queue.

100. How does the Lightning Component framework help developers implement solutions faster?

- By providing device-awareness for mobile and desktops

101. What are two ways for a developer to execute tests in an org?

- Tooling API

- Developer console

102. What is a fundamental difference b/w Master-Detail relationship and Lookup relationship?

- A Master-Detail relationship detail record inherits the sharing and security of its master record.

103. A developer writes a trigger on the Account object on the before update event that increments a count field. A workflow rule also increments the count field every time an Account is created or updated. The field update in the workflow rule is configured to not to re-evaluate workflow rules. What is the value of the count field if an Account is inserted with an initial value of zero, assuming no other automation logic is implemented on the Account?

- 4, check in dev console: 2

104. A licensed\_professional c custom object exists in the system with two master-detail fields for the following objects: Certification c and Contact. Users with the 'certification representative' role can access the certification records they own and view the related licensed professional records, however, users with the sales representative role report they cannot view any licensed professional records even though they own the associated contact record. What are two likely causes of users in the 'sales reps' role not being able to access the licensed professional records?

- The Organization recently modified the sales reps role to restrict read/write access to licensed\_professional c

- The org has a private sharing model for Certification c and certification c is the primary relationship in the licensed-professional c object.

105. A custom picklist field, food\_preference\_c, exists on a custom object. The picklist contains the following options; 'vegan','kosher','no prefernce'. The developer must ensure a value is populated every time a record is created or updated. what is the most efficient way to ensure a value is selected every time a record is saved?

- Mark the field as required on the field definition.

# SFDC Development Interview Questions

## **01. What is Apex?**

Apex is a strongly typed, object-oriented programming language that allows developers to extend the Salesforce platform by writing their own business logic into the platform. Apex looks similar to Java and can be launched through a variety of user-initiated events such as record updates, button clicks, triggers on objects, or external web service requests.

## **02.What is SOQL used for?**

SOQL stands for Salesforce Object Query Language. It is very similar to the widely used language SQL (Structured Query Language), to query databases. SOQL is specifically designed for Salesforce data and is used to query the Salesforce platform to retrieve data. SOQL is used within Apex & Visualforce to return sets of data.

## **03. What options are available to you for deploying from a Sandbox to Production?**

There are various ways to deploy from Sandbox to Production. The main way is to use a Salesforce feature called Change Sets. These allow you to package up components and then deploying them to another Salesforce Org. There are various other methods including ANT Migration Tool, Force.com IDE and Unmanaged packages.

## **04. Can you customise Apex & Visualforce directly in a production org?**

Apex cannot be customised in a production Org, it must be changed and deployed through a sandbox and meet test coverage. Visualforce, on the other hand, may be customised directly in production (Although this is not best practice)

## **05. What are the two options for when Apex Triggers can run?**

Apex Triggers can either run before a record has been saved or after. A before operation is usually used to verify information that is going to be inserted, and

**Rupom Chakraborty  
Capital Info Solutions**

**Shyamala Plaza, Behind Mythrivanam, Amerpet, Hyderabad, Telangana State, INDIA. Ph: 8686864286**

after trigger is used to access data that has previously been entered by a user or system.

## 06. When should Apex be used over Workflow rules or Process Builder?

There are various reasons why you should use Apex over declarative automation options:

- *Workflow rules and Process Builder operations sometimes have feature limitations that can be overcome with Apex. For example, pulling information from an external system.*
- *When dealing with certain or large sets of data, Apex can be more efficient than declarative options due to less limitations.*

## 07. What are Governor Limits? Can you name 3 examples?

Salesforce runs on a multitenant environment which means resources (Storage, CPU, Memory) are shared with other companies on the Salesforce platform. This means limits must be in place to ensure that all companies using the Salesforce architecture abide by certain rules and don't let their code or processes monopolize shared resources. A few examples of Governor Limits are:

- *Total number of records retrieved by a SOQL query – 50,000*
- *Total number of SOQL queries issued – 100 (Synchronous) 200 (Asynchronous)*
- *Total number of DML statements issued – 150*
- *Total number of callouts (HTTP requests or Web services calls) in a transaction – 100*
- *Maximum CPU time on the Salesforce servers – 10,000ms (Synchronous) 60,000ms (Asynchronous)*

## 08. What is Apex test coverage? What's the minimum test coverage required to deploy?

To ensure that your code meets certain standards, [Apex Code coverage](#) shows you how many executable lines of code in your classes and triggers have been exercised by test methods. Code coverage percentage is a calculation of the number of covered lines divided by the sum of the number of covered lines and uncovered lines. The minimum test coverage required to deploy to production is 75%

**Rupom Chakraborty  
Capital Info Solutions**

**Shyamala Plaza, Behind Mythrivanam, Amerpet, Hyderabad, Telangana State, INDIA. Ph: 8686864286**

## 09. What are some Apex best practices?

- Bulkify your code
- Avoid SOQL Queries or DML statements inside FOR Loops
- Avoid Hardcoding IDs
- Use of the Limits Apex Methods to Avoid Hitting Governor Limits
- Querying Large Data Sets

## 10. What is an Apex Email Service?

You can use [email services](#) to process the contents, headers, and attachments of inbound emails. For example, you can create an email service that automatically creates contact records based on contact information in messages

## 11. What are the different type of Collections you can have in Apex?

There are three main types of [collections](#)...

- *Lists – A list is an ordered collection of elements that are distinguished by their indices. List elements can be of any data type—primitive types, collections, sObjects, user-defined types, and built-in Apex types.*
- *Sets – A set is an unordered collection of elements that do not contain any duplicates. Set elements can be of any data type—primitive types, collections, sObjects, user-defined types, and built-in Apex types.*
- *Maps – A map is a collection of key-value pairs where each unique key maps to a single value. Keys and values can be any data type—primitive types, collections, sObjects, user-defined types, and built-in Apex types.*

## 12. What is Visualforce?

[Visualforce](#) is the component-based user interface framework for the Force.com platform. The framework includes a tag-based markup language, similar to HTML. Each Visualforce tag corresponds to a coarse or fine-grained user interface component, such as a section of a page, or a field. Visualforce boasts about 100 built-in components and a mechanism whereby developers can create their own components.

## 13. What is a Static Resource?

**Rupom Chakraborty  
Capital Info Solutions**

**Shyamala Plaza, Behind Mythrivanam, Amerpet, Hyderabad, Telangana State, INDIA. Ph: 8686864286**

[Static resources](#) allow you to upload content that you can reference in a Visualforce page, including archives (such as .zip and .jar files), images, style sheets, JavaScript, and other files.

#### 14. What is the difference between a standard and custom controller?

[Standard Controllers](#) are generated automatically for all standard pages. They provide you with all the functionality that a standard page contains, such as editing or saving a record.

[Custom Controllers](#) can be written by a developer to override the standard functionality that a standard controller provides on a Visualforce page.

#### 15. What is a Lightning Component?

The [Lightning Component](#) framework is a UI framework for developing dynamic web apps for mobile and desktop devices. It's a modern framework for building single-page applications engineered for growth. The framework supports partitioned multi-tier component development that bridges the client and server. It uses JavaScript on the client side and Apex on the server side.

#### 16. Explain the use of an Outbound Message?

An [outbound message](#) is one automation function that can fire from a workflow rule. They can send a message to external web services which can contain field values, this can subsequently kick off additional processes in external systems.

#### 17. What is a Connected App?

A [connected app](#) integrates an application with Salesforce using APIs. Connected apps use standard SAML and OAuth protocols to authenticate, provide single sign-on, and provide tokens for use with Salesforce APIs. In addition to standard OAuth capabilities, connected apps allow Salesforce admins to set various security policies and have explicit control over who can use the corresponding apps.

#### 18. What is OAuth?

**Rupom Chakraborty  
Capital Info Solutions**

**Shyamala Plaza, Behind Mythrivanam, Amerpet, Hyderabad, Telangana State, INDIA. Ph: 8686864286**

[OAuth](#) is an open standard for access delegation, commonly used as a way to grant websites or applications access to their information on other websites, but without giving them the passwords.

## 19. Can you give an example of a Salesforce API and its usage?

Salesforce has a variety of [API's](#) that let you interact with the system in different ways..

[REST](#) – The REST API lets you integrate with Force.com applications using simple HTTP methods in either XML or JSON formats, making this an ideal API for developing mobile applications or external clients.

[Bulk](#) – The Bulk API provides a programmatic access that lets you quickly load data into your Salesforce organisation.

[Streaming](#) – The Streaming API can be used to receive notifications for changes to Salesforce data that match a SOQL query you define. Streaming API is useful when you want notifications to be pushed from the server to the client based on criteria that you define

## 20. What are External ID fields used for?

Certain fields can be defined as an [external ID](#) on an object. These can be used in order to match up data from external systems with a unique reference ID. For example, if you need to match up data from an external accounting system to the Accounts in Salesforce, you can use an external ID field to reference the Accounting systems unique ID instead of the Salesforce ID.

## 21. What are Triggers in Salesforce? How are they different from Workflows?

Triggers in Salesforce are called **Apex Triggers**. These are distinct and are available specifically for common and expected actions like lead conversions. It is just a code that is executed before or after a record is inserted or updated. A trigger is different from a workflow as the former is a piece of code; whereas, a workflow is an automated process and uses no code.

## 22. What is trigger.new?

**Rupom Chakraborty  
Capital Info Solutions**

**Shyamala Plaza, Behind Mythrivanam, Amerpet, Hyderabad, Telangana State, INDIA. Ph: 8686864286**

`Trigger.new` returns a list of records that have been added recently to `sObjects`. The records that are yet to be saved in the database are returned. Only insert and update triggers have the `sObject` list, and records can only be modified in `before.trigger`.

### 23. What is the minimum test coverage required in order to deploy a trigger?

75 %

### 24. Differentiate between Salesforce Object Query Language and Salesforce Object Search Language.

- **Salesforce Object Query Language (SOQL)** lets us search only one object. We can query for all types of fields in SOQL. Data Manipulation Language (DML) operations can be performed on the query results.
- **Salesforce Object Search Language (SOSL)** lets us search for multiple objects. But, in SOSL, we can query only for texts, emails, and phone numbers. Also, DML operations cannot be performed on the search results.

### 25. What are the different methods of Batch Apex Class?

`Database.Batchable` interface contains three methods that must be implemented:

- Start method:

```
global (Database.QueryLocator | Iterable<sObject>) start(Database.BatchableContext bc) {}
```

- Execute method:

```
global void execute(Database.BatchableContext BC, list<P>){}
```

- Finish method:

**Rupom Chakraborty  
Capital Info Solutions**

**Shyamala Plaza, Behind Mythrivanam, Amerpet, Hyderabad, Telangana State, INDIA. Ph: 8686864286**

```
global void finish(Database.BatchableContext BC){}
```

## 26. What are the different types of Collections in Apex?

Collections are the type of variables used to store multiple numbers of records (data). Types of collections in Salesforce are:

- Lists
- Maps
- Sets

## 27. What are Maps in Apex?

Maps are used to store data in the form of key–value pairs, where each unique key maps to a single value.

## 28. What is an Apex Transaction?

An Apex transaction represents a set of operations that are executed as a single unit. These operations include DML operations that are responsible for querying records. All the DML operations in a transaction either get completed successfully or get rolled back completely if an error occurs even in saving a single record.

## 29. What is the difference between Public Classes and Global Classes in Apex?

A global class is accessible across the Salesforce instance, irrespective of namespaces.

Whereas, public classes are accessible only in the corresponding namespaces.

## 30. What are Getter and Setter methods?

The get (getter) method is used to pass values from the controller to the VF page.

**Rupom Chakraborty  
Capital Info Solutions**

**Shyamala Plaza, Behind Mythrivanam, Amerpet, Hyderabad, Telangana State, INDIA. Ph: 8686864286**

Whereas, the set (setter) method is used to set the value back to the controller variable.

### **31. Which fields are automatically indexed in Salesforce?**

The following fields are automatically indexed in Salesforce:

- Custom fields marked as an external ID or a unique field
- Primary keys (ID, Name, and Owner fields)
- Audit dates (such as SystemModStamp)
- Foreign keys (Lookup or Master–Detail relationship fields)

### **32. What is Sandbox in Salesforce? What are the types of Sandboxes available?**

Sandbox is a similar copy of a Salesforce production for testing, development, and training. The content and size of a sandbox may vary depending on the type of sandbox and the edition of the production organization which is associated with the sandbox. There are four types of sandboxes available:

- Developer Sandbox
- Developer Pro Sandbox
- Partial Data Sandbox
- Full Sandbox

### **33. What is Apex Class?**

An apex class is a template from which Apex objects can be created. These classes consist of other classes, variables, user-defined methods, exception types, and the static initialization code.

### **34. Why use Batch Apex instead of Normal Apex?**

**Kupom Chakraborty  
Capital Info Solutions**

**Shyamala Plaza, Behind Mythrivanam, Amerpet, Hyderabad, Telangana State, INDIA. Ph: 8686864286**

There are various reasons why Batch Apex is better than Normal Apex.

- A Normal Apex uses 100 records per cycle to execute SOQL queries. Whereas, a Batch Apex does the same in 200 records per cycle. So, it is very fast when the execution of SOQL queries is considered.
- A Normal Apex can retrieve 50,000 SOQL queries but, in Batch Apex, 50,000,000 SOQL queries can be retrieved.
- A Normal Apex has a heap size of 6 MB; whereas, a Batch Apex has a heap size of 12 MB.
- When executing bulk records, Normal Apex classes are more vulnerable to encountering errors as compared to Batch Apex. The latter is normally error-less.

### **35. How can you call an Apex Class in Salesforce?**

Ways to call an Apex class in Salesforce are as follows:

- From the Visualforce page
- From Developer Console
- From JavaScript links
- By using a trigger
- From another class
- From home page components

### **36. What is the difference between `isNull` and `isBlank`?**

**Answer:** Use the ISBLANK() function for text fields. As text fields can never be NULL, even if nothing is provided as a value, ISNULL() function takes only an empty value. If ISNULL() is used with a text field then it returns false.

### **37. What is the use of SOQL? What are the differences between SOQL and SOSL?**

**Answer:** The full form of SOQL is Standard Object Query Language. SOQL evaluates to a single sObject and a list of many sObjects or an integer for count method

**Rupom Chakraborty  
Capital Info Solutions**

**Shyamala Plaza, Behind Mythrivanam, Amerpet, Hyderabad, Telangana State, INDIA. Ph: 8686864286**

queries. It is used to retrieve data from the Salesforce platform and resides inside Apex or Visualforce and returns a set of data.

The differences between SOQL and SOSL are given below.

SOQL	SOSL
It is possible to search only one subject at a time.	Multiple objects can be searched here at a time.
Uses “SELECT” keyword for retrieval of records from the database.	Uses “FIND” keyword for retrieval of record from database.
It allows to search only one table.	It allows to search multiple tables.
It allows to perform DML operations on query results.	It is not possible to perform DML on search results.
This is used in a query ( ) call.	This is used in a search ()call in the API.
This is used in classes and triggers.	This cannot be used in triggers.
Returns records.	Returns fields.

### 38. What are the options for deploying from Sandbox to Production org? What is an Outbound Change Set?

**Answer:** Various methods are adopted for deploying a sandbox to production. The main method is using the Change Sets. A Change Set enables to create and test a new object in the sandbox and then send that to the production org. It contains information on org and not on any data such as records.

The other methods to deploy sandbox to production org include Force.com IDE, unmanaged packages as well as ANT migration tools.

When sending customizations from current org to another org the Outbound Change Set is used. Once received by the receiving org it is called Inbound Change Set.

### 39. What is Data Skew in Salesforce?

**Rupom Chakraborty  
Capital Info Solutions**

**Shyamala Plaza, Behind Mythrivanam, Amerpet, Hyderabad, Telangana State, INDIA. Ph: 8686864286**

**Answer:** The full form of SOQL is Standard Object Query Language. SOQL evaluates a condition in an enterprise when you require to work with say 10,000 records. A single user owns huge number of records and we call that as “ownership data skew” and it causes performance issues while updating in Salesforce.

#### **40. What is the use of Custom Settings? What are the types of Custom Settings in Salesforce?**

**Answer:** Custom Settings are similar to the custom objects. The developers create custom data and associate custom data for an organizational profile or a specific user.

The exposure of custom data settings to the application cache is beneficial due to the efficient access with no need for the cost of the repeated queries to the database. This data can be used by SOAP API, validation rule or formula field.

#### **41. What is a Wrapper Class in Salesforce?**

**Answer:** A Wrapper class is defined as a class and a data structure. It is an abstract data type which has its instances formed by a collection of objects. The basic nature is that of a custom object and is defined by the Wrapper class properties. It allows records to be checked from a list and process them for a specific action.

#### **42.What is the difference between WhoID and WhatID?**

**Answer:** WhoID refers to people such as contact or leads. Whereas “What ID” refers only to objects.

#### **43. Is it possible to edit Apex Class/Trigger in the Production Environment?**

**Answer:** No, it is not possible. We cannot directly edit the Apex Class/Trigger in the production environment. It can be done only in the Developer edition, sandbox org or the testing org

#### **44. What is Asynchronous Apex? What are its different types?**

**Rupom Chakraborty  
Capital Info Solutions**

**Shyamala Plaza, Behind Mythrivanam, Amerpet, Hyderabad, Telangana State, INDIA. Ph: 8686864286**

**Answer:** Asynchronous Apex is used to run processes that are scheduled at a later time. There are four types of Asynchronous Apex.

**They are:**

- Future Methods
- Batch Apex
- Queueable Apex
- Schedules Apex

#### **45. How can we implement Pagination in Visualforce?**

**Answer:** Pagination in Salesforce refers to displaying a large number of records that are spread across multiple pages. The list control displays 20 records per page, hence pagination is used to change the page size with controller extension.

#### **46. How to call a Controller Method within a JavaScript?**

**Answer:** To call a controller method (Apex function) from JavaScript, you need to use **actionfunction**.

#### **47. What are the types of Bindings used in Salesforce?**

**Answer:** There are three types of bindings used in Salesforce as shown below.

1. **Data Bindings:** It refers to the data set in the controller.
2. **Action Bindings:** It refers to the action methods in the controller.
3. **Component Bindings:** It refers to some other Visualforce components.

#### **48. What is a Developer Console?**

**Answer:** The Developer Console is an integrated development tool which has a collection of tools. These can be used to create, debug and test the applications in Salesforce.org.

#### **49. What are Packages? What are the types of Packages? What are Managed Packages?**

**Answer:** A package is a bundle/collection of a list of components or related applications.

**Rupom Chakraborty  
Capital Info Solutions**

**Shyamala Plaza, Behind Mythrivanam, Amerpet, Hyderabad, Telangana State, INDIA. Ph: 8686864286**

**There are two types of packages:**

- Managed
- Unmanaged

Managed Packages are used to sell and distribute applications to clients.

Developers can sell user-based licenses and applications through the AppExchange for the managed packages. These are fully upgradable. In the case of seamless upgrades, removal of objects or fields is performed.

## **50. What are the ways to deploy Metadata in Salesforce?**

**Answer:**

The metadata in Salesforce is deployed in the following ways:

- Change Sets
- Eclipse with Force.com IDE.
- com Migration Tool – ANT/Java-based.
- Salesforce Package

## **51. Which tag is used to create a Button? Which tag is used for a URL link? Which is the tag for Password Protection?**

**Answer:** The tag <apex: commandbutton> is used for the button. The tag used for URL link is <apex: outputLink>. The tag used for password protection is <apex: inputSecret>.

## **52. What is Obligatory Outer Tag? Which tag is used for displaying a video in the Visualforce?**

**Answer:** The tag <apex: page> is the obligatory outer tag. The tag <apex: flash> is used to display a video in the Visualforce.

## **53. How to display a Chatter Feed Record?**

**Answer:** <chatter:feed> is the component that is used for the display of chatter feed.

## **54. Explain Exception Catch in a Program.**

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Capital Info Solutions**

**Shyamala Plaza, Behind Mythrivanam, Amerpet, Hyderabad, Telangana State, INDIA. Ph: 8686864286**

**Answer:** Java has inbuilt exception handling and the normal code goes into the TRY block and the exception handling code into the CATCH block.

### 55. What is an Access Modifier in a Program?

**Answer:** Apex uses access modifiers for defining methods and variables. These are private, protected, global or public access modifiers

### 56. Which operation does not have Undelete?

**Answer:** The before operation does not have Undelete.

### 57. What is the use of Blob Variable?

**Answer:** Blob is a data type that is meant to collect binary data. ToString() is a method that converts the blob back into a string.

### 58. Which Platform is used for developing an App in Salesforce?

**Answer:** The force.com platform is used for developing an App in Salesforce.

### 59. What are Primitive Data Types?

**Answer:** Integer, Double, Long, Date, Date-Time, String, ID, Boolean, etc., are some of the examples of primitive data types. These are passed by value and not by reference.

### 60. What does the Data Wrapper Class contain?

**Answer:** This contains abstract, structured and collection data.

### 61. How long is Bit Variable for a long statement?

**Answer:** The long statement has 64-bit.

### 62. What are the development tools for Apex?

**Answer:** The development tools for Apex are Force. Com Developer Tools, Force. Com IDE and Code Editor, MS Visual Code.

**Rupom Chakraborty  
Capital Info Solutions**

Shyamala Plaza, Behind Mythrivanam, Amerpet, Hyderabad, Telangana State, INDIA. Ph: 8686864286

### 63. What is the use of Debug Log?

Answer: Debug Log is used for catching the exception.

### 64. Can we reference Standard Controller and Controller Attribute at the same time?

Answer: No, it is not possible to reference both the Standard Controller and the Controller at the same time. Use the reference attribute to reference the standard controller with a custom controller.

### 65. What is the Development Mode? When do we enable the Development Mode? How do we do it?

Answer: The best way to build Visualforce pages is to enable the development mode. It makes it easy to simultaneously view the code and output.

The Development Mode helps in:

- Define new Visualforce pages by entering a new URL.
- Error messages containing detailed stack traces than what is received by the standard users.
- Displays a footer with the page's view state, a link to component reference documentation, and any associated controller link.
- Offers Page Markup Editor for highlighting find-replace functionality as well as auto-suggest for attribute names and component tags.

### 66. Why do You write Test Classes?

Answer: Test classes refer to the maximum lines of code covered when your execution takes place. If you want to develop a robust and error-free code, then the test classes are used as a tool for testing your code. It ensures that if any Apex customization has to be deployed in your org, then it will operate properly.

Every test class will be annotated with `@isTest` keyword. In fact, we must annotate a test class with `@isTest`, for defining as a test class. If the keyword `testMethod` is used within any method within a class, then it is called as a test method.

**Rupom Chakraborty  
Capital Info Solutions**

**Shyamala Plaza, Behind Mythrivanam, Amerpet, Hyderabad, Telangana State, INDIA. Ph: 8686864286**

## **67. What is the Minimum Test Coverage that is required for Deployment?**

**Answer:** At least 75 % of your Apex code must be covered by unit tests in Salesforce, and all these tests must be completed successfully.

## **68. What are the different ways of Salesforce Deployment?**

**Answer:** Salesforce code is deployed with:

- Salesforce packages
- Change Sets
- Com Migration Tools
- Eclipse with Force.com IDE (Decommissioned )
- MS Visual Code

## **69. What is the trigger?**

The trigger is the code that is executed before or after the record is updated or inserted.

## **70. What is the difference between Trigger and Workflow?**

Workflow is an automated process that fires an action based on evaluation criteria and rule criteria. As described above, Trigger is the code that is executed on or after the record is updated or inserted.

## **71. Why are Visualforce pages served from a different domain?**

Visualforce pages are served from a different domain to improve security standards and block cross site scripting.

## **72. Which fields are automatically Indexed in Salesforce?**

Only the following fields are automatically indexed in Salesforce:

- Primary keys (Id, Name and Owner fields).
- Foreign keys (lookup or master-detail relationship fields).
- Audit dates (such as SystemModStamp).
- Custom fields marked as an External ID or a unique field.

**Rupom Chakraborty  
Capital Info Solutions**

**Shyamala Plaza, Behind Mythrivanam, Amerpet, Hyderabad, Telangana State, INDIA. Ph: 8686864286**

### **73. How many callouts to external service can be made in a single Apex transaction?**

Governor limits will restrict a single Apex transaction to make a maximum of 100 callouts to an HTTP request or an API call.

**How can you expose an Apex class as a REST WebService in Salesforce?**

You can expose your Apex class and methods so that external applications can access your code and your application through the REST architecture. This is done by defining your Apex class with the **@RestResource** annotation to expose it as a REST resource. You can then use **global classes** and a **WebService callback method**.

### **74. How can you call a controller method from JavaScript?**

To call a controller method (Apex function) from JavaScript, you need to use **actionfunction**.

### **75. How to get the UserID of all the currently logged in users using Apex code?**

You can get the ID's of all the currently logged in users by using this global function: **UserInfo.getUserId()**.

### **76. How many records can a select query return? How many records can a SOSL query return?**

The Governor Limits enforces the following:-

Maximum number of records that can be retrieved by SOQL command: 50,000.

Maximum number of records that can be retrieved by SOSL command: 2,000.

### **77. What is the use of “@future” annotation?**

Future annotations are used to identify and execute methods asynchronously. If the method is annotated with “**@future**”, then it will be executed only when Salesforce has the available resources.

### **78. What is MVC Architecture?**

When a Custom Object is created in Salesforce and a VF is created to display the details of the record of the custom object using controller. In this scenario, We

**Rupom Chakraborty  
Capital Info Solutions**

**Shyamala Plaza, Behind Mythrivanam, Amerpet, Hyderabad, Telangana State, INDIA. Ph: 8686864286**

observer three parts

“Object Creation”, “Visualforce Page”, “Controller”.

- Object Creation is a Part of “Model”.
- Visualforce Page is a Part of “View”
- Controller is a Part of “Controller”

### 79. What are the various event on which a trigger can fire?

A trigger is a set of statement which can be executed on the following events. In above trigger events one or more of below events can be used with comma separated.

- before insert
- before update
- before delete
- after insert
- after update
- after delete
- after undelete

### 80. What are different type of Triggers?

There are two types of triggers:

- **Before triggers** are used to perform a task before a record is inserted or updated or deleted. These are used to update or validate record values before they are saved to the database.
- **After triggers** are used if we want to use the information set by Salesforce system and to make changes in the other records. are used to access field values that are

**Rupom Chakraborty  
Capital Info Solutions**

**Shyamala Plaza, Behind Mythrivanam, Amerpet, Hyderabad, Telangana State, INDIA. Ph: 8686864286**

set by the system (such as a record's Id or LastModifiedDate field), and to affect changes in other records. The records that fire the *after trigger* are read-only.

*What are the considerations while implementing the Triggers?*

Consider the following before implementing the triggers.

- Upsert trigger fires on 4 different events :- before(insert, update), after (insert, update)
- Merge trigger are fired on both events on delete
- Field history is updated after the trigger has successfully finished processing data.
- Any callout should be asynchronous so that trigger does not have to wait for the response.
- A trigger cannot have a static keyword in its code.
- If a trigger completes successfully the changes are committed to the database and if it fails the transaction is rolled back.

### **81. What are **context** variables in triggers?**

All triggers define implicit variables that allow developers to access run-time context. These variables are contained in the **System.Trigger** class.

### **82. How is Trigger.New Different from Trigger.newMap?**

Trigger.New variable returns the list of sObject which has invoked the trigger and Trigger.NewMap returns the map of ID's with the newly entered records. NewMap is only available in after insert, before and after the update and after undelete.

### **83. How is Trigger.new different from Trigger.old?**

Trigger.New variable returns the list of sObject which has invoked the trigger and Trigger.old returns a list of the older versions of the records which have invoked the trigger. Trigger.Old is only available in update and delete events

### **84. Can a trigger call a batch class?**

Yes, we can call a batch class in the trigger as we do in the normal apex code.

**Rupom Chakraborty  
Capital Info Solutions**

**Shyamala Plaza, Behind Mythrivanam, Amerpet, Hyderabad, Telangana State, INDIA. Ph: 8686864286**

### **85. Can a trigger make a call to Apex callout method?**

we can call a callout method in Apex Trigger but the only condition is that it has to be an asynchronous callout because the trigger flow cannot wait on the response received by the callout method.

### **86. Define Recursive Trigger and how to avoid it?**

There is a possibility that the result of the trigger can end up calling the same trigger again and can run in a loop, this is known as a recursive trigger. To avoid this scenario we should create a static variable and check the value of this variable before we execute anything in the trigger.

### **87. What do you mean by the bulkifying trigger?**

A trigger should be able to handle single record and thousands of record. There are two important point for it:

- Write triggers that operate on collections of sObjects.
- Write triggers that perform efficient SOQL and DML operations.

If we will not follow above point we may hit governor limit when records are created/updated/deleted in mass using data loader or other tool.

### **88. Is there any limit on number of triggers define on an object?**

We can define as many triggers on an object as we want but **it is recommended to have one trigger per object** because the order of execution of different trigger is not guaranteed and any trigger can fire first.

### **89. Can you explain the order of execution in Triggers?**

Following is the order of execution of events which Salesforce perform before a DML Event.

1. The record is loaded from the database or is initialized in case of upset statement.

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2. New record's field values are overwriting the old values, now depending on the origin of the request this flow varies: if the request is from a UI page then the following validations are performed by Salesforce:
  1. Any layout specific rules are checked
  2. All the required values are checked at layout and field level
  3. All the field formats are validated along with the maximum length of field values  
If the request originates other than UI then Salesforce only checks for Validation of foreign keys.
3. Now all the before triggers are executed at the database.
4. Most of the validations are performed again to verify that all the required fields are holding some values and are not null, at this step user defined validations are also executed and the only validation which is not repeated in this step are the rules specific to the layout.
5. After the success of the previous step, the record is reviewed for duplicate records, by running the duplicate rule. If a duplicate is found the flow is stopped and no further actions performed.
6. In this step, record is saved to the database but it not committed yet.
7. Now all the after Triggers are executed.
8. In this step, assignment rules are executed.
9. Now if there is any auto-response rule is present then they are executed.
10. Next in the queues are the workflow, they are executed after the auto response.
11. If the workflow was updating a field, then the fields updated in this step and the flow after this step varies if this was the case.
12. If a field was updated then the before and after update triggers are fired once more and standard validation are also executed again. Custom validation escalation rule and duplicate rules are not required to run again.
13. Once the execution has reached this stage, then process is fired if there are any declared on the object.
14. Now the escalation rules are executed.

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15. Entitlement rules are executed if any.
16. If there are any roll-up summary field, then they are calculated at this step and the parent object go through the save process.
17. Now the sharing rules are executed.
18. If we reach this stage, then that means no error has occurred and the data is ready to be committed to the database and is committed now.
19. Now if there is any post-commit logic like email, then that is executed.

### **90. How to restrict trigger to fire only once(Recursive trigger)?**

Recursion occurs when your trigger fires again and again.

The situation such as when you are using after update trigger and updating parent record and again on parent record, there is a trigger which updates child records. It can lead to an infinite loop.

### **91. What is the use of trigger.isexecuting?**

Suppose we have a method in apex class and we want this method to run only when the method is getting called from apex trigger than we can make use of trigger.isexecuting in apex class to check if the method is getting called from trigger .

### **92. What is the difference between database.insert and insert?**

Using insert if one record fails entire operation is stopped and none of the record is inserted into database, whereas with databse.insert partial insertion is supported.

### **93. What are the context variable available with before insert event?**

Only Trigger.new is available.

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**Shyamala Plaza, Behind Mythrivanam, Amerpet, Hyderabad, Telangana State, INDIA. Ph: 8686864286**

**94. What are the context variable available with after insert event?**

Trigger.new and Trigger.newMap.

**95. What are the context variable available with before update event?**

Trigger.new, Trigger.old, Trigger.newmap and Trigger.oldmap

**96. What are the ontext variable available with after update event?**

Trigger.new, Trigger.old, Trigger.newmap and Trigger.oldmap

**97. What are the context variable available with before delete event?**

Trigger.old and Trigger.oldMap.

**98. What are the context variable available with after delete event?**

Trigger.old and Trigger.oldMap.

**99. What are the context variable available with after undelete event?**

Trigger.new and Trigger.newMap.

**100. What is the condition to call a method from trigger which is making callout?**

The callout should be asynchronous.

**101. In Which object all Apex Triggers are stored?**

Answer: ApexTrigger

**102. What is an abstract class?**

Answer: Abstract classes will be classes that contain at least one dynamic strategies. A conceptual technique is a strategy that is pronounced however

**Rupom Chakraborty  
Capital Info Solutions**

**Shyamala Plaza, Behind Mythrivanam, Amerpet, Hyderabad, Telangana State, INDIA. Ph: 8686864286**

contains no usage. Unique classes may not be instantiated, and expect subclasses to give usage to the theoretical techniques.

**103. How to insert value to a parent and child element at the same time?**

Answer: Use triggers.

**104. What is the page reference?**

Answer: A Page Reference is a reference to an instantiation of a page. Among different characteristics, Page References comprise of a URL and an arrangement of inquiry parameter names and qualities.

**105. How do you pass the parameters from one apex class to another to another?**

Answer: You can simply pass the parameters through the URL.

**106. What are outbound messages? what it will contain?**

Answer: An outbound message contains the endpoint URL.

**107. What is a virtual class?**

Answer: In protest situated programming, a virtual class is a settled inward class whose capacities and part factors can be abrogated and reclassified by subclasses of the external class. Virtual classes are closely resembling virtual capacities.

**108. What is overloading?**

Answer: Over-burdening alludes to the capacity to utilize a solitary identifier to characterize numerous techniques for a class that contrasts in their information and yield parameters. Over-burden techniques are for the most part utilized when they reasonably execute a similar undertaking yet with a somewhat unique arrangement of parameters.

**Rupom Chakraborty  
Capital Info Solutions**

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## **109. What is overriding?**

**Answer:** Abrogating is a protest situated programming highlight that empowers a tyke class to give diverse usage to a strategy that is as of now characterized and additionally actualized in its parent class or one of its parent classes. The overriding technique in the kid class ought to have a similar name, mark, and parameters as the one in its parent class.

## **110. Onchange Event Does Not Work With <apex:actionsupport> In Ie9. How To Resolve This Error?**

**Answer :**

If we add the Header on Visualforce page then it creates lots of problem in IE9. I think there are few java-script library loaded by Header of Salesforce which makes IE9 compatible. So the best solution is to enable the Header by using “showHeader=true” in Apex page.

## **111. What is Queueable Apex?**

It's an extension of the Future Methods. It uses the **Queueable** interface which is an enhanced way of running your asynchronous Apex code compared to using future methods. The limitations which Future methods have, through Queueable Apex, we can overcome them.

## **112. How does Queueable Apex differ from Future methods?**

Queueable Apex is similar to future methods in that they're both queued for execution, but they provide us these additional benefits.

When you queue a Queueable Apex, you get a job ID, that can be used to trace it easily, which is not possible in case of future methods.

You can use non-primitive datatypes in Queueable Apex, like objects and sObjects, which is not possible in case of future methods, because it supports only primitive data types as params.

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You can chain jobs, by calling another starting a second job from a running job, which is not possible in case of future methods, because we can't call another future method from a future context.

---

### **113. Can you write a sample Queueable Job?**

Create a class, implement the Queueable interface, and override the execute method.

```
public class QueueableApexExample implements Queueable {  
    public void execute(QueueableContext context) {  
        //some process  
    }  
}
```

---

### **114. What is QueueableContext?**

It is an interface that is implemented internally by Apex, and contains the job ID. Once you queue the Queueable Job, the Job Id will be returned to you, by apex through QueueableContext's getJobId() method.

---

### **115. How can I queue above Job(QueueableApexExample)?**

Using System.enqueueJob Method.

```
ID jobID = System.enqueueJob(new QueueableApexExample());
```

---

### **116. How can I use this Job Id to trace the Job?**

Just perform a SOQL query on AsyncApexJob by filtering on the job ID.

```
AsyncApexJob jobInfo = [SELECT Status,NumberOfErrors FROM AsyncApexJob  
WHERE Id=:jobID];
```

---

### **117. I have 200 records to be processed using Queueable Apex, How Can I divide the execution Context for every 100 records?**

**Rupom Chakraborty  
Capital Info Solutions**

**Shyamala Plaza, Behind Mythrivanam, Amerpet, Hyderabad, Telangana State, INDIA. Ph: 8686864286**

Similar to future jobs, queueable jobs don't process batches, so you can't divide the execution Context. It will process all 200 records, in a single execution Context.

---

### **118. Can I do callouts from a Queueable Job?**

Yes, you have to implement the Database.AllowCallouts interface to do callouts from Queueable Jobs.

---

### **119. How Chaining works in Queueable Apex?**

Chaining allows us to customize the execution order of a set of jobs in a process. let's say there are N jobs, A, B, C and so on. We have a process in which A has to run first and gives output to B and then B runs and gives output to C and so on. So, instead of calling the individual Queueable Jobs explicitly, we can link the calls, logically within Queueable Jobs,

### **120. How many numbers of jobs, can be chained at a time?**

You can add only one job from an executing job, which means that only one child job can exist for each parent job.

Since, no limit is enforced on the depth of chained jobs, you can chain one job to another. You can repeat this process with each new child job to link it to a new child job.

---

### **121. How many numbers of jobs, I can queue using System.enqueueJob() at a time?**

Interviewee: You can add up to 50 jobs to the queue with System.enqueueJob in a single transaction in Synchronous apex. In asynchronous transactions, you can add only one job to the queue.

---

### **122. Interviewer: Can I chain a job that has implemented allowsCallouts from a Job that doesn't have?**

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Yes, callouts are also allowed in chained queueable jobs.

---

### **123. Can I call Queueable from a batch?**

Yes, But you're limited to just one System.enqueueJob call per execute in the Database.Batchable class. Salesforce has imposed this limitation to prevent explosive execution.

---

### **124. If I have written more than one System.enqueueJob call, what will happen?**

System will throw LimitException stating "Too many queueable jobs added to the queue: N".

---

### **125. How can we handle this error, without using a try-catch?**

We can check whether the current count of queueable jobs has exceeded the limit or not, if not, queue them.

Limits.getQueueableJobs() returns the currently queued jobs count.

Limits.getLimitQueueableJobs() returns the limit.

```
If(Limits.getQueueableJobs() < Limits.getLimitQueueableJobs()) {  
//System.enqueueJob()}
```

---

### **126. I have a use case to call more than one Queueable Jobs from a Batch apex, how can I achieve it?**

Since we can't call more than one Queueable Job from each execution Context, We can go for scheduling the Queueable Jobs.

### **127. how to test a Queueable Job?**

A queueable job is an asynchronous process. To ensure that this process runs within the test method, the job is submitted to the queue between the Test.startTest and Test.stopTest block.

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Also, The ID of a queueable Apex job isn't returned in test context — System.enqueueJob returns null in a running test.

---

## **128. how to test Chaining?**

You can't chain queueable jobs in an Apex test. So you have to write separate test cases for each chained queueable job. Also, while chaining the jobs, add a check of Test.isRunningTest() before calling the enqueueJob.

```
public class A implements
```

## **129. Whenever case is created send email to case owner. How to do that?<sup>1</sup>**

We can do it using workflow.

## **130. How to call Future methods from Process Builder?**

To call Future methods from Process Builder, call the future method from the invocable method.

## **131. What is System.RunAs?**

Generally, all Apex code runs in system mode, where the permissions and record sharing of the current user are not taken into account. The system method runAs enables us to write test methods that change the user context to an existing user or a new user so that the user's record sharing is enforced.

The runAs method doesn't enforce user permissions or field-level permissions, only record sharing. We can use runAs only in test methods

## **132. What are Mixed DML Exception?**

This error means that two Sobjects(setup & non-setup) that we are using in our code can not mix during the same transactions. This restriction exists because some sObjects affect the user's access to records in the org.

For example, We cannot insert an account and then insert a user or a group member in a single transaction.

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Capital Info Solutions**

**Shyamala Plaza, Behind Mythrivanam, Amerpet, Hyderabad, Telangana State, INDIA. Ph: 8686864286**

To avoid this error, we should perform DML operation on standard/custom object records in a different transaction.

### **133. What are the solutions for Mixed DML Operation?**

Solution For Mixed DML Operation.

1. Separate the Setup object and Non-Setup object dml operation using Future Method.
2. System.RunAs : Enclose mixed DML operations within System.runAs blocks to avoid the mixed DML error in test class.

### **134. Difference between before and after trigger?**

Before triggers can be used to update or validate record values before they are saved to the database.

Use Before Trigger: In the case of validation check in the same object.  
Insert or update the same object.

After triggers can be used to access field values that are set by the database (such as a record's Id or lastUpdated field) and to affect changes in other records, such as logging into an audit table or firing asynchronous events with a queue. Use After Trigger: Insert/Update related object, not the same object.

Notification email.

Note We cannot use After trigger if we want to update a record because it causes read only error. This is because, after inserting or updating, we cannot update a record.

### **135. What are the best practice in avoiding Trigger Recursion?**

1. One Trigger Per Object
2. Logic-less Triggers – use Helper classes to handle logic.
3. Code coverage 100%
4. Handle recursion – To avoid the recursion on trigger, we should make sure our trigger is getting executed only one time.

### **136. What are scenarios where we can use without sharing?**

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Capital Info Solutions**

**Shyamala Plaza, Behind Mythrivanam, Amerpet, Hyderabad, Telangana State, INDIA. Ph: 8686864286**

## Without Sharing

- 1.If we have VF page in which we are showing “Sales Rep Performance” which displays a flag in red, green and yellow. Now ideally this field should not be visible whenever a Sales Rep accesses this page. But it is always visible if the class has no keyword specified or if a class has without sharing specified.
- 2.We want to use apex class globally for integration purpose,then we can use without sharing.

## **137. Is apex class always execute in system context?**

Yes,apex class always execute in system context i.e. Apex code has access to all objects and fields irrespective of the logged in User.

## **138.What are the considerations while using with sharing?**

If the class is not declared as With Sharing or Without Sharing then the class is by default taken as Without Sharing.

Both inner classes and outer classes can be declared as With Sharing.

If inner class is declared as With Sharing and top level class is declared as Without Sharing, then by default entire context will run in With Sharing Context.

If a class is not declared as With/Without Sharing and if this class is called by another class in which sharing rules is enforced then both the classes run with With Sharing.

Outer class is declared as With Sharing and inner class is declared as Without Sharing, then inner class runs in Without Sharing Context only(Inner class don't take the Sharing properties from outer class).

## **139. What is the difference between apex managed sharing and with sharing?**

Apex Managed Sharing is used to grant the access to the records.It is about programmatically configuring sharing rules. Keyword “With Sharing” is used to respect the current user sharing rule.

**Rupom Chakraborty  
Capital Info Solutions**

**Shyamala Plaza, Behind Mythrivanam, Amerpet, Hyderabad, Telangana State, INDIA. Ph: 8686864286**

#### **140. What are considerations while using apex managed sharing?**

If record owner changes, then sharing created through apex managed sharing are maintained but if user share record manually, then record sharing will be lost if owner changes.

User with “modify All Data” can only add, edit or delete records in share table.

#### **141.What are the limitations of manual sharing?**

Manual Sharing cannot be stricter than Organization Wide Defaults.

Manual Sharing is only available on individual records, it is not available for all records of a certain object.

Only applicable on records that have Private or Public Read Only access in OWD.

When setting Automatic and Manual Sharing users and admins should define if the security should be extended to related records.

#### **142.What is database.savepoint?**

database.savepoint is a method which is used to define a point which can be roll back to. If any error occurs during a transaction, that contains many statements, the application will roll back to the most recent savepoint and the entire transaction will not be aborted.

#### **143.What are the considerations while using save point?**

If you set more than one savepoint, then roll back to a savepoint that is not the last savepoint you generated, the later savepoint variables become invalid.

References to savepoints cannot cross trigger invocations, because each trigger invocation is a new execution context. If you declare a savepoint as a static variable then try to use it across trigger contexts you will receive a runtime error.

Each savepoint you set counts against the governor limit for DML statements.

#### **144.What is database.rollback?**

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Rollback is an operation which returns the database to some previous state. Rollbacks are important for database integrity, because they mean that the database can be restored to a clean copy even after erroneous operations are performed.

#### **145.How to deactivate a validation for a particular user in production?**

For deactivating for a particular user we will use hierarchy Custom Settings: A type of custom setting that uses a built-in hierarchical logic that lets us personalize settings for specific profiles or users.

#### **146.What is external ID?**

An external ID is a custom field that has the “External ID” attribute, meaning that it contains unique record identifiers from a system outside of Salesforce.

#### **147.What is the use of external Id?**

- 1.It is mainly use for integration purpose.
- 2.The field becomes searchable in the sidebar search.
- 3.We can use the upsert API call with the external ID to refer to records.

#### **148.What is Unique ID?**

Every Record, regardless of entity type, has a globally unique identification value in its ID field which is generated at the time of record creation. That Record ID value will never change, even if the record is deleted and then undeleted.

#### **149.Why and How to Convert a 15-character Id to an 18-character Id?**

We can convert 15 character IDs to 18 character IDs to update records, or to make it easier to work in systems that aren't case sensitive. Create a formula that will give you the 18-character Id of records.

#### **150.What is custom login flows?**

**Rupom Chakraborty  
Capital Info Solutions**

**Shyamala Plaza, Behind Mythrivanam, Amerpet, Hyderabad, Telangana State, INDIA. Ph: 8686864286**

Login flow is powerful solution for organization. Flow designer is a point-and-click tool that lets you automate business processes by building flows.

Common uses cases includes

Collecting and updating user data at login

Configuring two-factor authentication

Integrating third-party strong authentication methods.

### **151.What is TOTP?**

TOTP is time-based one-time password. We can use login flow that enhances TOTP authentication with a two-factor authentication method that Salesforce supports. The TOTP algorithm computes a one-time password from a shared secret key and the current time.

Users can use a time-based authentication application (such as Salesforce Authenticator or Google Authenticator) to scan the QR code and generate a TOTP token.

### **152.What is InvocableMethod Annotation?**

This annotation lets us mark an Apex method as being something that can be called from somewhere other than Apex.

### **153.Can we call apex class from process builder?**

Yes we can call an apex class from process builder. To call an Apex method, add the Call Apex action to your process and select an Apex class with a @invocable method Annotation.

### **154.What are limitation of outbound messages?**

**Rupom Chakraborty  
Capital Info Solutions**

**Shyamala Plaza, Behind Mythrivanam, Amerpet, Hyderabad, Telangana State, INDIA. Ph: 8686864286**

We have outbound messages as one of the Actions for workflows. This works if other party implements the WSDL that is generated once Outbound messaging is defined with appropriate end point .

### **155.What is the best approach of making callout to external web services?**

Future method invoked through triggers allowed to do apex callouts and invoke external web service provided the future method is annotated with @future(callout=true). This provides lot of flexibility and one of the best approaches.

### **156.Can we make callout directly from trigger?**

No we cannot. Callout is a Asynchronous process where as Trigger is Dynamic / Synchronous. Callouts would hold up the database transaction until the callout completed, which can be up to 120 seconds from a limits perspective. This could cause significant contention with other transactions and impact performance. That means it is not directly possible to do a web service callout from a trigger. But using @Future annotation we can convert the Trigger into a Asynchronous Class and we can use a Callout method.

### **156.What are setup objects?**

Setup objects are those which interacts with metadata All other object (Standard and Custom) are non setup object.

### **157.What are use cases of future method?**

Make a callout to external web services

Avoid MIXED\_DML\_OPERATION exception

### **158.What are the considerations while using future method?**

Methods with the future annotation must be static

**Rupom Chakraborty  
Capital Info Solutions**

**Shyamala Plaza, Behind Mythrivanam, Amerpet, Hyderabad, Telangana State, INDIA. Ph: 8686864286**

It can only return void data type.

The parameter must be primitive data types, arrays of primitive data types, or collections of primitive data types.

### **159.Difference between static and non static members of the class?**

Static

Static means that it's a variable/method of a class which belongs to the whole class but not to one of its certain objects. This means that static keyword can be used only in a 'class scope'. We can access those members from outside the class also using the class name without instantiating a new instance of the class

Examples of static methods could be convert millimeters to centimeters, subtract two numbers, and convert String to uppercase

Non-static

Non-static method (and variables) must have a new instance of the class instantiated in order to be used. Typically these rely on data inside the class that then is referred to inside the class.

Examples of non-static methods include

lead convert, delete opportunity, and edit contact.

### **160.What is the difference between keyword and literal?**

Keyword- Reserved word having specific meaning. The words which have meaning already defined. We cannot use keyword to define variable.

Literal – The name which we give. Like variable name.

### **161.Can we declare static variable inside method?**

We can not declare variable as static inside a method.

### **162.What are access modifiers in apex?**

**Rupom Chakraborty  
Capital Info Solutions**

**Shyamala Plaza, Behind Mythrivanam, Amerpet, Hyderabad, Telangana State, INDIA. Ph: 8686864286**

Apex allows you to use the private, protected, public, and global access modifiers when defining methods and variables.

Private: The method or variable is accessible only within the Apex class in which it is defined. Note: By default all variables are private.

Protected: The method or variable is visible to any inner classes in the defining Apex class, and to the classes that extend the defining Apex class

Public: The method or variable can be used by any Apex in this application or namespace.

Global: The method or variable can be used by any Apex code that has access to the class, not just the Apex code in the same application.

### **163.What is Recursion ?**

Recursion occurs when same code is executed again and again. It can lead to infinite loop and which can result to governor limit sometime.

### **164.How to avoid recursion?**

To avoid the situation of recursive call, we have to write code in such a way that the trigger will execute one time. To do so, we can create a class with a static Boolean variable with default value true.

### **165.What is With sharing and without sharing?**

With Sharing: It means “with Security Settings enforced”.If you declare a class as a With Sharing, Sharing rules given to the current user will be taken into the consideration. This, pertains to only respecting OWDs and Sharing Rules. We cannot “automatically” enforce field level security or profile permissions with “with sharing,”

Example

```
public with sharing class sharingClass
```

Without Sharing:If you declare a class as a Without Sharing, then this Apex class runs in system mode which means Apex code has access to all the objects and field

**Rupom Chakraborty  
Capital Info Solutions**

**Shyamala Plaza, Behind Mythrivanam, Amerpet, Hyderabad, Telangana State, INDIA. Ph: 8686864286**

irrespective of current users sharing rules, field level security and Object permissions.

### **166.What will happen if SOQL query is written in for loop to access Custom Metadata Candidate Response?**

It will hit the governor limit. There is a governor limit that enforces a maximum number of SOQL queries.

When queries are placed inside a for loop, a query is executed on each iteration and governor limit is easily reached.

### **167.What is the difference between insert and database.insert?**

Insert

Partial insert is not supported.

Roll back is not supported.

If we use the DML statement (Insert) in bulk operation, then if error occurs the execution will stop. In that case Apex code throws an error and none of the record will insert to the database.

Database.Insert

Database methods are static methods available in Database class.

Partial insert is supported.

Roll back is supported.

Includes the optional all or None parameters that defaults true.

If we use DML database methods (Database.Insert) in bulk operation, then if error occurs the remaining records will be inserted/updated means partial DML operation will be done. The only record throwing an error will not be inserted/updated.

Example: If we are inserting 10 records in an object, Where 5 records are correct and remaining 5 records are incorrect.

**Rupom Chakraborty  
Capital Info Solutions**

**Shyamala Plaza, Behind Mythrivanam, Amerpet, Hyderabad, Telangana State, INDIA. Ph: 8686864286**

In DML statement (Insert) all the 10 records will be failed, because if one record is incorrect or error means all other remaining records will not be inserted. It will throw error.

In Database.insert 5 records will be inserted, remaining 5 records will be failed.(i.e. Partial DML Operation).

### **168.Can we use DML operation on before and trigger?**

When we use before insert operation records are not committed to database. Here we dont need DML operations as whatever values we give in our code is automatically assigned to that record.

After Triggers, the record is already committed to the database hence we need an extra DML operation to reflect any changes.

### **169.How can we monitor batch job?**

We can monitor a Bulk API job in Salesforce. The monitoring page tracks jobs and batches created by any client application.

### **170.Can we deactivate trigger in production?**

We can do it using custom settings. We can create custom settings where we have checkbox field which will refer in the trigger and modify that record value to make it active or inactive.

### **171.What is difference between trigger and workflow?**

Workflow

Workflow is automated process that fired an action based on Evaluation criteria and rule criteria.

We can access a workflow across the object.

We cannot perform DML operation on workflow

We cannot query from database

**Rupom Chakraborty  
Capital Info Solutions**

**Shyamala Plaza, Behind Mythrivanam, Amerpet, Hyderabad, Telangana State, INDIA. Ph: 8686864286**

## Trigger

Trigger is a piece of code that executes before or after a record is inserted or updated.

We can access the trigger across the object and related to that objects

We can use 20 DML operations in one trigger.

We can use 20 SOQL's from data base in one trigger.

## 172.What is Difference between SOQL and SOSL?

SOQL(Salesforce Object Query Language)

Using SOQL we can Search only on one object at a time.

We can query on all fields of any datatype

We can use SOQL in Triggers and classes.

We can perform DML operation on query results.

SOSL(Salesforce object Search Language)

Using SOSL we can search on many objects at a time.

We can query only on fields whose data type is text,phone and Email.

We can use in classses but not in Triggers.

We cannot perform DML operation on search result

## 173. What are best practices of using trigger?

### 1) One Trigger Per Object

We should write single Apex Trigger per object. If we develop multiple Triggers for a single object, we have no way of controlling the order of execution if those Triggers can run in the same contexts.

### 2) Logic-less Triggers

If we write methods in our Triggers, those can't be exposed for test purposes. We also can't expose logic to be re-used anywhere else in your org.

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Capital Info Solutions**

**Shyamala Plaza, Behind Mythrivanam, Amerpet, Hyderabad, Telangana State, INDIA. Ph: 8686864286**

### 3) Context-Specific Handler Methods

Create context-specific handler methods in Trigger handlers

### 4) Bulkify your Code

Bulkifying Apex code refers to the concept of making sure the code properly handles more than one record at a time.

### 5) Avoid SOQL Queries or DML statements inside FOR Loops

An individual Apex request gets a maximum of 100 SOQL queries before exceeding that governor limit. So if this trigger is invoked by a batch of more than 100 Account records, the governor limit will throw a runtime exception

### 6) Using Collections, Streamlining Queries, and Efficient For Loops

It is important to use Apex Collections to efficiently query data and store the data in memory. A combination of using collections and streamlining SOQL queries can substantially help writing efficient Apex code and avoid governor limits

### 7) Querying Large Data Sets

The total number of records that can be returned by SOQL queries in a request is 50,000. If returning a large set of queries causes you to exceed your heap limit, then a SOQL query for loop must be used instead. It can process multiple batches of records through the use of internal calls to query and queryMore

### 8) Use @future Appropriately

It is critical to write your Apex code to efficiently handle bulk or many records at a time. This is also true for asynchronous Apex methods (those annotated with the @future keyword). The differences between synchronous and asynchronous Apex can be found

### 9) Avoid Hardcoding IDs

When deploying Apex code between sandbox and production environments, or installing Force.com AppExchange packages, it is essential to avoid hardcoding IDs in the Apex code. By doing so, if the record IDs change between environments, the logic can dynamically identify the proper data to operate against and not fail.

## **174.What is apex design pattern?**

Singleton:

Repeated execution of a class within a single transaction may lead to exceed the governor limit. This pattern is to reduce repeated instantiation of a class.

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Strategy:

Strategy pattern is to provide different solutions for the same problem at runtime.

Decorator:

This pattern is used to provide the additional functionality to the sObject using Apex code.

Bulk State Transition:

Implementing Bulk State transition ensure that the bulk action is performed based on the change of bulk record state.

### **175. How to use HTTP Callouts in batch class?**

To use HTTP Callouts in batch class we need to use Database.allowcallouts in interface.

### **176. Difference between REST and SOAP API?**

SOAP API:-

- 1)Supports data in the form of XML only
- 2)Requires WSDL for the integration
- 3)Use SOAP API in any language that supports Web services.

REST API :-

- 1)Supports both XML and JSON format
- 2)Preferred for mobile and web apps since JSON being Lighter the app runs smoother and faster

You can also use Apex SOAP and REST Web services to expose data from platform or allow an external application to invoke Apex methods.

### **177. While creating JavaScript button to execute anonymous apex, what should you keep in mind ?**

Ans : End user must needs to have “Apex Author” permission and this is something should not be granted to end user. Also, while creating JavaScript button, user must be aware that its only supported in Salesforce classic and not in Salesforce Lightning.

**Rupom Chakraborty  
Capital Info Solutions**

**Shyamala Plaza, Behind Mythrivanam, Amerpet, Hyderabad, Telangana State, INDIA. Ph: 8686864286**

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**178. How to enable truncate custom object feature in Salesforce ?**

Ans : Navigate to “App Setup | User Interface” and select “Enable Custom Object Truncate”.

---

**179. What may be reason truncate button is not visible on Custom Object ?**

Ans :

Are referenced by another object through a lookup field or that are on the master side of a master-detail relationship

Are referenced in a reporting snapshot

Have a custom index or an external ID

---

**180. How to report on User License field?**

Ans :

Create formula field in User Object with formula “Profile.UserLicense.Name”.

Note: You need to copy and paste this value because it doesn’t show up in the fields drop down.

---

**181. Which custom fields or relationships in salesforce ends with “\_\_pc” and “\_\_pr” ?**

Ans : In normal scenario all custom fields ends with “\_\_c” and relationships ends with “\_\_r” However for Person accounts, custom fields ends with “\_\_pc” and custom relationship ends with “\_\_pr”.

---

**182. Difference between Chatter API and Connect API.**

Ans :

Chatter API is REST API for Chatter to display Salesforce data, especially in mobile applications. Responses are localized, structured for presentation, and can be filtered to contain only what the app needs.

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Connect API provides apex classes for accessing the same data available in Chatter REST API. Use Chatter in Apex to create custom Chatter experiences in Salesforce.

---

### **183. How to capture errors after using Database DML methods in Salesforce?**

Ans :

```
1 List<Contact> lstContact = new List<Contact>();  
2 Contact con = new Contact (lastName = 'Zaa',  
2 SQL_Server_Id__c='3',firstName='Jitendra');  
  
3 lstContact.add(con);  
4 //.. Other Contact records added in List  
  
5 Database.UpsertResult[] results = Database.upsert( lstSGAccOppInsert,  
5 Contact.SQL_Server_Id__c.getDescribe().getSObjectField() ,false );  
6  
  
7 for(Integer i=0;i<results.size();i++){  
8   if (!results.get(i).isSuccess()){  
  
9     Database.Error err = results.get(i).getErrors().get(0);  
10    System.debug('Error - '+err.getMessage() + '\nStatus  
Code : '+err.getStatusCode()+'\n Fields : '+err.getFields());  
  
11  }  
12 }
```

---

**Rupom Chakraborty**

**Capital Info Solutions**

**Shyamala Plaza, Behind Mythrivanam, Amerpet, Hyderabad, Telangana State, INDIA. Ph: 8686864286**

#### **184. What causes Concurrent Apex limit error in Salesforce ?**

Ans : If Synchronous Apex runs more than 5 sec it considered as long running job. And we have limit that only 10 long running job can execute at a time. So, whenever 11th Synchronous apex tries to execute, it gets Concurrent Apex limit error. Read more here about Concurrent Request Limits

---

#### **185. What is custom metadata type ?**

Ans : Custom metadata was introduced generally in Summer 15 release. Before Custom metadata type, we were using Custom settings of List type. Problem with custom setting was that, during migration or in packages, data were not migrated. We had to either use data loader or some API to create initial data. However, if we package custom metadata type or migrate it, data will also be migrated along with it.

---

#### **186. Which component in Salesforce ends with “\_\_mdt” and “\_\_s”?**

Ans : Custom metadata types ends with “\_\_mdt” (meta data type), just like custom object or custom fields ends with “\_\_c”.

When we create Geolocation field in Salesforce, lets say by name “location\_\_c” then internally Salesforce creates subfields with extension “\_\_s”. In this case “location\_latitude\_\_s” and “location\_longitude\_\_s”.

#### **187. How to disable Header ribbon in Salesforce Organization where Community is enabled ?**

Ans : In Profile “View Global Header” controls visibility of Black ribbon which is used to switch between community.

---

#### **188. How many record can be displayed in repeater or PageBlockTable in Visualforce ?**

Ans : current limit is 1000 records.

---

**Rupom Chakraborty  
Capital Info Solutions**

**Shyamala Plaza, Behind Mythrivanam, Amerpet, Hyderabad, Telangana State, INDIA. Ph: 8686864286**

## **189. How to display more than 1000 records in repeater or PageBlockTable component of Visualforce ?**

Ans : If circumstances permits, we can use readOnly attribute available at apex page level. Read more about making complete page readonly.

---

## **190. How we can check API limits already used in any organization by using REST or SOAP API ?**

Ans :

SOAP API and REST API always returns header after making successful call to Salesforce.

Account, Report, Salesforce, SOQL, Standard Report Visibility, Winter 14 with 2 Commentson Apex, Visualforce, Data Loader and SOQL Interview Question – Part 17

## **191. Sometimes while deleting record it gives error “Object cannot be Deleted”. What is the reason for this kind of error ?**

Ans :

This is generic error message prompted by Salesforce many times, which is not well informative. To get informative message, we can try to delete same record in “Developer Console”. In Developer Console Debug log, we will get exact error message.

**Example :** Lets say there is one record which is parent of more than 2000 records and grand parent of 5000 records. In such scenario from developer console it gives error something like “record cannot be deleted because it has many associated objects” However in User Interface, it will just display that “Object cannot be deleted.”

---

## **192. Why are Visualforce pages served from a different domain?**

Ans :

If we see carefully, all our Visualforce pages are served like “c.YOURSERVER.visual.force.com/apex/YOURPAGENAME”, And because of this most of time we run into Same-Origin Policy error in Javascript if we try to access parent page from Iframe. Following reason is explained by one of the evangelist of Salesforce:

**Rupom Chakraborty  
Capital Info Solutions**

Shyamala Plaza, Behind Mythrivanam, Amerpet, Hyderabad, Telangana State, INDIA. Ph: 8686864286

“The move to separate domains has one very specific purpose: leverage the browser security model (same domain policy) to protect our customers and the salesforce.com service from cross site scripting and cross site request forgery attacks.

Moving to the serving pages from separate domains is a critical component of our ongoing commitment to insure the highest level of security and availability for everyone.

In the world where everything is served from the same domain any custom page that you visit had full access to any other page in your org and also any page served from salesforce.com itself. This included potentially malicious code that was installed as part of a force.com package.”

---

### **193. In below code snippet , What is your observation and what is going wrong ?**

```
1 trigger TestBeforeDelete on Lead (before Delete) {  
2  
3     for(Lead l : Trigger.Old)  
4     {  
5         laddError('error');  
6     }  
7  
8     String msgBody = 'Test Email';  
9     String Subject = 'Test from Cogni Force on Lead';
```

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Capital Info Solutions**

**Shyamala Plaza, Behind Mythrivanam, Amerpet, Hyderabad, Telangana State, INDIA. Ph: 8686864286**

```
10      Messaging.SingleEmailMessage mail  
11      = new Messaging.SingleEmailMessage();  
  
12      String[] toAddresses = new String[] {'abc@gmail.com'};  
13      mail.setToAddresses(toAddresses);  
  
14      mail.setReplyTo('abc@gmail.com');  
15      mail.setSenderDisplayName('Cogniforce Test Simulator');  
  
16      mail.setSubject(Subject);  
17      mail.setPlainTextBody(msgBody);  
  
18      mail.setHTMLBody(msgBody);  
19      Messaging.sendEmail(new Messaging.SingleEmailMessage[] { mail });  
  
19 }
```

Ans :

It will not send any email. Because “adderror” prevents all transactions from committing including emails.

---

#### **194. Can we mass delete reports using Apex (Anonymous Apex) ?**

Ans :

Salesforce has not exposed any API for Reports. So best way is :

Move all reports needs to delete in new folder.

Inform everyone that reports will be deleted after some time may be 30 days.

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Capital Info Solutions**

**Shyamala Plaza, Behind Mythrivanam, Amerpet, Hyderabad, Telangana State, INDIA. Ph: 8686864286**

Import your reports folder in Eclipse including all reports to be deleted and then delete the the reports folder in eclipse. It will delete all the reports at once.

---

**165. While creating Dynamic SOQL, which involves Datetime gives " no viable alternative at character '<EOF>' " error.**

**OR**

**value of filter criterion for field 'CreatedDate' must be of type dateTime and should not be enclosed in quotes**

**OR**

**How to use Datetime in Dynamic SOQL Query in Salesforce ?**

**Ans :**

This error is because of wrong construction of Dynamic Query with Datetime. following code snippet will give idea on how to construct dynamic query for Datetime ?

1 //format the datetime to make it Dynamic Soql ready

2 String formatedDt = cutOffDateTime.format('yyyy-MM-dd'T'HH:mm:ss'Z');

```
String sql = 'SELECT a.Id FROM Agents_Answer__c  
3 a WHERE a.Agents_Test_Result__r.Agent_Name__r.IsActive__c = false  
AND LastModifiedDate < '+ formatedDt ;
```

Where, “cutOffDateTime” is variable of datetime type.

---

**195. How you can use Datetime field as a criteria in SOQL Query ?**

**Ans :**

We cannot use Datetime as condition in Where Clause in between single Quotes. You can do something like this ,

WHERE CreatedDate > 2005-10-08T00:00:00Z

Or, you can also use Date Literals like

WHERE CreatedDate > YESTERDAY

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Capital Info Solutions**

**Shyamala Plaza, Behind Mythrivanam, Amerpet, Hyderabad, Telangana State, INDIA. Ph: 8686864286**

For more information on date formats and more literal values, check this URL.

---

**196. After Data Export using DataLoader, Some time it appears that data is on New Line (Carriage Return) when we open CSV file in Microsoft Excel. For example , Address Data separated on different lines. How can we override this problem ?**

Ans :

Excel does all sorts of “useful” things when it opens a CSV file. It will re-format dates, strip leading zeros, corrupt record IDs (if you have them in your report), and as explained it will also break line. Best way as per my experience till date is, Upload document to Google Drive. Export document back from Google drive as Excel.

**197. How can you lock record using SOQL so that it cannot be modified by other user.**

Ans : we will need “FOR UPDATE” clause of SOQL.

Sample :

```
1 Account [] accts = [SELECT Id FROM Account LIMIT 2 FOR UPDATE];
```

---

**198. If you set more than one savepoint, then roll back to a savepoint that is not the last savepoint you generated, What will happen to later savepoint variables ?**

Ans : if you generated savepoint SP1 first, savepoint SP2 after that, and then you rolled back to SP1, the variable SP2 would no longer be valid. You will receive a runtime error if you try to use it.

---

**199. What are few limitations (points to remember) of Savepoint or Transaction Control in Apex ?**

Ans :

Each savepoint you set counts against the governor limit for DML statements.

**Rupom Chakraborty  
Capital Info Solutions**

**Shyamala Plaza, Behind Mythrivanam, Amerpet, Hyderabad, Telangana State, INDIA. Ph: 8686864286**

Static variables are not reverted during a rollback. If you try to run the trigger again, the static variables retain the values from the first run.

Each rollback counts against the governor limit for DML statements. You will receive a Runtime error if you try to rollback the database additional times.

The ID on an sObject inserted after setting a savepoint is not cleared after a rollback.

---

## **200. What are few Considerations about Trigger ?**

Ans :

**upsert** triggers fire both before and after insert or before and after update triggers as appropriate.

**merge** triggers fire both before and after delete triggers for the losing records and before update triggers for the winning record only.

Triggers that execute after a record has been **undeleted** only work with specific objects.

Field history is not recorded until the end of a trigger. If you query field history in a trigger, you will not see any history for the current transaction.

You can only use the **webService** keyword in a trigger when it is in a method defined as asynchronous; that is, when the method is defined with the **@future** keyword.

A trigger invoked by an insert, delete, or update of a **recurring event** or **recurring task** results in a runtime error when the trigger is called in bulk from the Force.com API.

**Merge** trigger doesn't fire there own trigger instead they fire delete and update of loosing and winning records respectively.

---

## **201. How to execute Apex from Custom button or Javascript ? Give Example.**

Ans :

It is possible using Ajax toolkit.

**Rupom Chakraborty  
Capital Info Solutions**

**Shyamala Plaza, Behind Mythrivanam, Amerpet, Hyderabad, Telangana State, INDIA. Ph: 8686864286**

```

1 global class myClass {
2     webService static Id makeContact (String lastName, Account a) {
3         Contact c = new Contact(LastName = lastName, AccountId = a.Id);
4         return c.id;
5     }
6 }
```

we can execute above method from javascript like :

```

1 {!REQUIRESCRIPT("/soap/ajax/33.0/connection.js")}
2 {!REQUIRESCRIPT("/soap/ajax/33.0/apex.js")}
```

```

3 var account = sforce.sObject("Account");
4 var id = sforce.apex.execute("myClass" , "makeContact",
5 {lastName:"Smith", a:account});
```

To call a webService method with no parameters, use {} as the third parameter for **sforce.apex.execute** .

Also, you can use the following line to display a popup window with debugging information:

**sforce.debug.trace=true;**

---

## 202. What is difference between public and global class in Apex ?

Ans :

- Public class can be accessed within application or namespace. This is not exactly like public modifier in Java.

**Rupom Chakraborty  
Capital Info Solutions**

Shyamala Plaza, Behind Mythrivanam, Amerpet, Hyderabad, Telangana State, INDIA. Ph: 8686864286

- Global class visible everywhere , any application or namespace. WebService must be declared as Global and which can be accessed inside Javascript also. It is like public modifier in Java.
- 

### **203. Explain Considerations for Static keyword in Apex.**

**Ans :**

- Apex classes cannot be static.
  - Static allowed only in outer class.
  - Static variables not transferred as a part of View State.
  - Static variables and static block runs in order in which they are written in class.
  - Static variables are static only in scope of request.
- 

### **204. Explain few considerations for @Future annotation in Apex.**

**Ans :**

Method must be static

Cannot return anything ( Only Void )

To test @future methods, you should use startTest and stopTest to make it synchrounous inside Test class.

Parameter to @future method can only be primitive or collection of primitive data type.

Cannot be used inside VF in Constructor, Set or Get methods.

@future method cannot call other @future method.

Salesforce, Visualforce with 4 Commentson Salesforce Interview Question – Part 15

### **205. User Wants to set the starting day in Calendar as “Monday” instead of “Sunday”. How to get it done?**

Ans : Change the user locale to “English ( United Kingdom ) ” in Personal information or User record.

---

**Rupom Chakraborty  
Capital Info Solutions**

**Shyamala Plaza, Behind Mythrivanam, Amerpet, Hyderabad, Telangana State, INDIA. Ph: 8686864286**

## **206. Why CSS is not working in PDF created by Visualforce ?**

Ans : In Many cases, i have observed problems faced by my colleagues and complaining that CSS is not working when they try to render any Visualforce page as "PDF". Same Question is asked many times in Interviews also. Basically there are two ways:

Use "apex:stylesheet" tag to import external CSS file

Wrap "Style" tag inside "Head" tag in Visualforce

---

## **207. How to get Ip Address of User in Apex?**

Ans :

```
1 String ipAddress = ApexPages.currentPage().getHeaders().get('X-Salesforce-SIP');
```

True-Client-IP has the value when the request is coming via the caching integration. X-Salesforce-SIP has the value if there is no caching integration (sandbox, developer edition orgs) or via the secure url.

Thanks to TechNrd for this tips.

---

## **208. How to get total number of Child records in Lookup relationship?**

Ans: As Rollup Summary field is only supported in Master detail, we cannot use it for Lookup. There are following two ways (If anyone has any other idea please comment).

*Inline Visualforce page*

*Trigger on Child Object, which will update field in Parent record if child record is inserted, deleted or undeleted.*

---

## **209. System admin has created a Visualforce for Account. In future he created few more new Fields. How could System admin can code Visualforce so that in future if any new field is added or existing field deleted. It should reflect in Visualforce without changing anycode?**

Ans : It can be done with help of Field Sets. Please read this article.

---

**Rupom Chakraborty  
Capital Info Solutions**

**Shyamala Plaza, Behind Mythrivanam, Amerpet, Hyderabad, Telangana State, INDIA. Ph: 8686864286**

## **210. Once you convert lead, Few fields on lead should be reset so that sensitive information should not be queried using SOQL. How to get this done?**

Ans : Once lead is converted, its READ ONLY. we cannot update it using Apex or Trigger. However we can use “Before Update” trigger on lead and check for field “IsConverted”. If its true means lead is going to be converted so reset all fields in that case.

---

## **211. How to convert carriage returns in Textarea to Line Breaks in Visualforce?**

Ans : We can use “<apex:outputField>” instead of “<apex:outputText>”. It will maintain formatting automatically.

---

## **212. How to handle comma within field while uploading using DataLoader ?**

Ans : Data Loader cannot handle this implicitly because there is no logical path to follow. In case your Data Loader CSV file for import will contain commas for any of the field content, you will have to enclose the contents within double quotation marks “ ”. Data Loader will be able to handle this.

Question Only :

1. What is Apex?
2. Explain about Apex syntax?
3. Does Apex support DML operations?
4. Is Apex strongly typed language?
5. Does Apex supports unit tests?
6. When should developers choose Apex?
7. What are the different data types in Apex?
8. What are the common methods of data types in Apex?
9. What are the limitations of Apex?
10. Does Apex support switch statements?
11. What types of statements we can use in Apex?
12. What types of collection does Apex supports?
13. How can you declare List/Map/Set in Apex?
14. What are the different types of Apex code development tools?
15. What is Force.com Developer Console?

**Rupom Chakraborty  
Capital Info Solutions**

**Shyamala Plaza, Behind Mythrivanam, Amerpet, Hyderabad, Telangana State, INDIA. Ph: 8686864286**

16. Tell me something about Abstract Class?
17. Clarify a couple of considerations required for the Static Keyword in Apex.
18. Can you state some o the uses of APEX?
19. What are a couple of Considerations about Trigger?
20. Say about the statement “APEX a RAD Tool”?
21. Differentiate between Ajax and ActionPoller?
22. What are a couple of limitations (points to recall)
23. What is the present version of APEX and for what reason would it be a good idea for me to update?
24. By what method would we be able to hard delete a record utilizing an Apex class/by code?
25. How might you refer to a present page id in Apex?
26. Difference Between Trigger.new And Trigger.old In Apex?
27. What is the distinction amongst public and Global class in Apex?
28. What is Apex Scheduler?
29. Tell me something about virtual class in the Apex programming?
30. What is outputLink?
31. What is the utilization of interfaces?
32. What is Apex Interface?
33. What do you mean Apex?
34. What is Scheduler class in Apex? Is it conceivable to call the Apex method in javascript code? If yes then clarify?
35. What is the distinction between apex:pageMessages, apex:pageMessage, apex: Message and apex: Messages?

Material Authored, Written and Prepared by

**RUPOM CHAKRABORTY**



**Shyamala Plaza, Behind Mythrivanam,  
Ameerpet , Hyderabad, Telangana State India**

**Ph : 86 86 86 42 86**

**Rupom Chakraborty**

**Capital Info Solutions**

**Shyamala Plaza, Behind Mythrivanam, Amerpet, Hyderabad, Telangana State, INDIA. Ph: 8686864286**

1. When importing and exporting data into salesforce, which 2 statements are true?  
**Developer and Developer Pro Sandboxes have different storage limits**  
**Data Import Wizard is a client application provided by Salesforce**
  
2. A developer writes a single trigger on the Account object on the after insert and after update events. A workflow rule modifies a field every time an Account is created or updated. How many times will the trigger fire if a new Account is inserted, assuming no other automation logic is implemented on the Account?  
**2**

3. A developer must provide custom user interfaces when users edit a Contact in either Salesforce Classic or Lightning Experience. What should the developer use to override the Contact's Edit button and provide this functionality?  
**A Visualforce page in Salesforce Classic and a Lightning component in Lightning Experience**

4. Which three operations affect the number of times a trigger can fire?

**Lightning Flows, Roll Up Summary Fields, Workflow Rules**

5. A developer identifies the following triggers on the Expense\_\_\_\_object:

`deleteExpense,`

`applyDefaultsToExpense,`

`validateExpenseUpdate:`

The triggers process before delete, before insert, and before update events respectively.

Which two techniques should the developer implement to ensure trigger best practices are followed?

Choose 2 answers

**Unify all three triggers in a single trigger on the Expense object that includes all events.**

**Create helper classes to execute the appropriate logic when a record is saved.**

6. A developer must write an Apex method that will be called from a Lightning component. The method may delete an Account stored in the accountRec variable. Which method should a developer use to ensure only users that should be able to delete Accounts can successfully perform deletions?

**Schema.sObjectType.Account.isDeleteable()**

7. A workflow updates the value of a custom field for an existing Account. How can a developer access the updated custom field value from a trigger?

By writing an After Update trigger and accessing the field value from Trigger.Old (before update – trigger.new)

8. The values 'High', 'Medium', and 'Low' are identified as common values for multiple picklists across different objects. What is an approach a developer can take to streamline maintenance of the picklists and their values, while also restricting the values to the ones mentioned above?

Create the Picklist on each object and use a Global Picklist Value Set containing the values.

9. An Apex method, getAccounts, that returns a List of Accounts given a searchTerm, is available for Lightning Web components to use. What is the correct definition of a Lightning Web component property that uses the getaccounts method?

```
@wire(getAccounts, {searchTerm: '$searchTerm'})
```

```
accountList;
```

10. Which code in a Visualforce page and/or controller might present a security vulnerability?

```
<apex:outputText escape="false" value="(16CurrentPage.parameters.userInput)" />
```

11. Which two are phases in the Aura application event framework?

Default, Bubble

12. Instead of sending emails to support personnel directly from Salesforce, Universal Containers wants to notify an external system in the event that an unhandled exception occurs. What is the appropriate publish/subscribe logic to meet this requirement?

Publish the error event using the Eventbus.publish () method and have the external system subscribe to the event using CometD.

13. A developer is writing tests for a class and needs to insert records to validate functionality. Which annotation method should be used to create records for every method in the test class?

@TestSetup

14. How should a custom user interface be provided when a user edits an Account in Lightning Experience?

Override the Account's Edit button with a Lightning Component

15. A developer receives an error when trying to call a global server-side method using the @RemoteAction decorator. How can the developer resolve the error?

Add static to the server side method signature

16. Example 2, Example 3

17. What is an example of a polymorphic lookup field in Salesforce?

The WhatId field on the standard Event object

18. What are three considerations when using the @InvocableMethod annotation in Apex? Choose 3 answers

A method using the @InvocableMethod annotation can be declared as Public or Global.

Only one method using the @InvocableMethod annotation can be defined per Apex class.

A method using the @InvocableMethod annotation must be declared as static.

19. Which statement should be used to allow some of the records in a list of records to be inserted if others fail to be inserted?

Database.insert(records, false)

20. Which process automation should be used to send an outbound message without using an Apex code?

Workflow Rule

21. When using SalesforceDX, what does a developer need to enable to create and manage scratch orgs?

Dev Hub

22. What is a fundamental difference between a Master-Detail relationship and a Lookup relationship?

A Master-Detail relationship detail record inherits the sharing and security of its master record.

23. What will be the output in the debug log in the event of a QueryException during a call to the aQuery method in

the following example?

```
class myClass {  
    class CustomException extends QueryException ()  
    public static Account aQuery() {  
        Account theAccount;  
        try {  
            system.debug ("Querying Accounts.");  
            theAccount= [SELECT Id FROM Account WHERE CreatedDate > TODAY];  
        }  
        catch (CustomException ex) {  
            system.debug Custon Exception.");  
        }  
        catch (QueryException ex){  
            system.debug('Query Exception.");  
        }  
        finally {  
            system.debug ("Done.");  
        }  
        return theAccount;  
    }  
}
```

**Querying Accounts. Query Exception. Done**

24. Given the following Apex statement:

```
Account myAccount = [SELECT Id, Name FROM Account];
```

What occurs when more than one Account is returned by the SOQL query?

**An unhandled exception is thrown and the code terminates.**

25. Which two statements are true about Getter and Setter methods as they relate to Visualforce?

Choose 2 answers

**Getter methods can pass a value from a controller to a page.**

**Setter methods can pass a value from a controller to a page.**

**26. Which exception type cannot be caught?**

**LimitException**

**27. What is the value of the Trigger.old context variable in a Before Insert trigger?**

**null**

**28. What does the Lightning Component framework provide to developers?**

**Prebuilt components that can be reused**

**29. Universal Containers hires a developer to build a custom search page to help users find the Accounts they want.**

**Users will be able to search on Name, Description, and a custom comments field.**

**Which consideration should the developer be aware of when deciding between SOQL and SOSL?**

**Choose 2 answers**

**SOQL is able to return more records.**

**SOSL is faster for text searches.**

**30. Which two characteristics are true for Aura component events?**

**Choose 2 answers**

**The event propagates to every owner in the containment hierarchy.**

**Depending on the current propagation phase ,Calling event.stoppropagation() may not stop the event propagation**

**31. Universal Containers wants to assess the advantages of declarative development versus programmatic customization for specific use cases in its Salesforce implementation.**

**What are two characteristics of declarative development over programmatic customization?**

**Choose 2 answers**

**Declarative development can be done using the Setup UI.**

**Declarative development does not require Apex test classes.**

**32. What should be used to create scratch orgs?**

**Salesforce CLI**

**33. If Apex code executes inside the execute () method of an Apex class when implementing the Batchable interface,**

**which two statement are true regarding governor limits?**

**Choose 2 answers**

**The Apex governor limits are reset for each iteration of the execute() method.**

**The Apex governor limits might be higher due to the asynchronous nature of the transaction.**

**34. Which Salesforce feature allows a developer to see when a user last logged in to Salesforce if real-time**

**notification is not required?**

**Event Monitoring Log**

**35. Which three statements are accurate about debug logs?**

**Choose 3 answers**

**Manage users or view all data permission.**

**Debug Log levels are cumulative, where FINE log level includes all events logged at the DEBUG, INFO, WARN, and ERROR levels.**

**Amount of information logged in the debug log can be controlled by the log levels.**

**36. A developer created a Visualforce page and custom controller to display the account type field as shown below.**

**Custom controller code:**

```
public with sharing class customCtrir{  
    private Account theAccount;  
    public String actType;  
    public customCerit (){  
        the Account (SELECT Id, Type FROM Account
```

```
WHERE Id:ApexPages.currentPage().getParameters().get("id")]=  
actType theAccount.Type:  
}  
}
```

Visualforce page snippet:

The Account Type is (actType)

The value of the account type field is not being displayed correctly on the page. Assuming the custom controller is

properly referenced on the Visualforce page, what should the developer do to correct the problem?

Add a getter method for the actType attribute.

37. A Lightning component has a wired property, searchResults, that stores a list of Opportunities.

Which definition of the Apex method, to which the searchResults property is wired, should be used?

@Aura Enabled (cacheable=true)

public static List<Opportunity> search (String term) {/implementation /}

38. Which two statements accurately represent the MVC framework implementation in Salesforce?

Choose 2 answers

Validation rules enforce business rules and represent the Controller (C) part of the MVC framework

Records deleted or updated by triggers represent the Model (M) part of the MVC framework.

39. A developer needs to confirm that a Contact trigger works correctly without changing the organization's data.

What should the developer do to test the Contact trigger?

Use the Test menu on the Developer Console to run all test classes for the Contact trigger.

**40. A developer needs to implement the functionality for a service agent to gather multiple pieces of information from**

**a customer in order to send a replacement credit card.**

**Which automation tool meets these requirements?**

**Flow Builder**

41. How can a developer check the test coverage of active process builder and flow before deploying them in a change set?

**Tooling API**

42. A developer must create a ShippingCalculator class that cannot be instantiated and must include a working default implementation of a calculate method, that sub-classes can override.

What is the correct implementation of the ShippingCalculator class?

```
public abstract class shippingcalculator {  
    public virtual void calculate () / *implementation*/
```

43. A developer must create an Apex class, ContactController, that a Lightning component can use to search for

Contact records. Users of the Lightning component should only be able to search for Contact records to which they have access.

Which two will restrict the records correctly?

```
public inherited sharing class ContactController  
public with sharing class ContactController
```

44. What are three characteristics of change set deployments?

Choose 3 answers

Change set can be used in one-way, single transaction.

Change set requires a deployment connection.

Change sets can be used in related organizations.

45. Which statement generates a list of Leads and Contacts that have a field with the phrase 'ACME'?

```
List<List <sObject>> searchList = (FIND "*ACME*" IN ALL FIELDS RETURNING Contact, Lead);
```

46. A developer wrote Apex code that calls out to an external system.

How should a developer write the test to provide test coverage?

**Write a class that implements the HTTPCalloutMock interface.**

47. A developer creates a new Apex trigger with a helper class, and writes a test class that only exercises 95% coverage of the new Apex helper class.

Change Set deployment to production fails with the test coverage warning:

"Test coverage of selected Apex Trigger is 0%, at least 1% test coverage is required."

What should the developer do to successfully deploy the new Apex trigger and helper class?

**Create a test class and methods to cover the Apex trigger**

48. A custom picklist field, Food Preference, exists on a custom object. The picklist contains the following

options: "Vegan", "Kosher", "No Preference". The developer must ensure a value is populated every time a record is created or updated.

What is the most efficient way to ensure a value is selected every time a record is saved?

**Mark the field as Required on the field definition.**

49. A developer has the following requirements:

Calculate the total amount on an Order.

Calculate the line amount for each Line Item based on quantity selected and price.

Move Line Items to a different Order if a Line Item is not in stock.

Which relationship implementation supports these requirements?

**Line Item has a Master-Detail field to Order and the Master can be re-parented.**

**Order has a Master-Detail field to Line Item and there can be many Line Items per Order.**

50. Since Aura application events follow the traditional publish-subscribe model, which method is used to fire an event?

**Fire()**

51. Cloud Kicks Fitness, an ISV Salesforce partner, is developing a managed package application. One of the application modules allows the user to calculate body fat using the Apex class, BodyFat, and its method, calculateBodyFat(). The product owner wants to ensure this method is accessible by the consumer of the namespace. Which approach should a developer take to ensure calculateBodyFat() is accessible outside the package namespace?

**Declare the class and method using the global access modifier.**

52. A Primary Id\_c custom field exists on the Candidate\_c custom object. The field is used to store each candidate's id number and is marked as Unique in the schema definition. As part of a data enrichment process, Universal Containers has a CSV file that contains updated data for all candidates in the system. The file contains each Candidate's primary id as a data point. Universal Containers wants to upload this information into Salesforce, while ensuring all data rows are correctly mapped to a candidate in the system. Which technique should the developer implement to streamline the data upload?

**Update the primaryid\_c field definition to mark it as an External Id**

53. What are two characteristics related to formulas?

Choose 2 answers

**Formulas are calculated at runtime and are not stored in the database.**  
**Formulas can reference values in related objects.**

54. What is the result of the following code snippet?

```
public void dowork(Account acct) {  
    for (Integer i = 0; i < 200; i++) {  
        insert acct;  
    }  
}
```

**0 Accounts are inserted**

55. A recursive transaction is initiated by a DML statement creating records for these two objects:  
. Accounts  
Contacts

The Account trigger hits a stack depth of 16.

Which statement is true regarding the outcome of the transaction?

**The transaction succeeds and all the changes are committed to the database.**

56. Which two types of process automation can be used to calculate the shipping cost for an Order when placed and apply percentage of the shipping cost to some of the related Order Products?

**Flow builder**  
**Process builder**

57. developer wants to mark each Account in a ListAccounts as either Active or Inactive based on the LastModifiedDate field value being more than 90 days.

**A for loop, with an if/else statement inside**

58. Which aspect of apex programming limited due to multitenancy?

**The number of records returned from database queries**

59. what are the two ways that a controller and extension can be specified for a custom object named Notice on a visual force pages ?

`apex:page controller="Account extensions-myControllerExtension"  
apex:page standardController="Account extensions-myControllerExtension"`

60. Universal Containers recently transitioned from Classic Lightning Experience. One of its business processes requires certain values from the Opportunity object to be sent via an HTTP REST callout to its external order management system based on a user-initiated action on the Opportunity detail page. Example values are as follows:

Name . Amount

- Account Which two methods should the developer implement to fulfill the business requirement?

Create a Lightning component that performs the HTTP REST callout, and use a Lightning Action to expose the component on the Opportunity detail page

Create a Visualforce page that performs the HTTP REST callout, and use a Visualforce quick action to expose the component on the Opportunity detail page

61. With annotation exposes an apex class as a restful web service?

`@RestResource`

62. Universal Containers implemented a private sharing model for the Account object. A custom Account search tool was developed with Apex to help sales representatives find accounts that match multiple criteria they specify.

Since its release, users of the tool report they can see Accounts they do not own.

What should the developer use to enforce sharing permissions for the currently logged-in user while using the custom search tool?

Use the `with sharing` keyword on the class declaration

63. Which three code lines are required to create a Lightning component on a Visualforce page?

`<apex:includeLightning/>  
$Lightning.use (Missed)  
$Lightning.createComponent`

64. A team of many developers work in their own individual orgs that have the same configuration as the production org.

Developer Sandbox

65. What are three capabilities of the `citng` requires tag when loading JavaScript resources in Aura components?

One-time loading for duplicate scripts

Specifying loading order

Loading scripts in parallel.

---

---

- Universal Containers wants Opportunities to no longer be editable when reaching the Closed/Won stage. How should a developer accomplish this?

Use a validation rule.

- Which Salesforce org has a complete duplicate copy of the production org including data and configuration?

Full Sandbox

- The following Apex method is part of the Contact Service class that is called from a trigger:

```
public static void setBusinessUnitToEMEA (Contact thisContact) { thisContact. Business  
Unit_c='EMEA': update thisContact;
```

How should the developer modify the code to ensure best practices are met?

```
public static void setBusiness UnitToEMEA (List<Contact> contacts) {  
for Contact thisContact: contacts){  
thisContact. Business Unit_C = "EMEA":  
}  
update contacts;  
}
```

- A developer has the following requirements:

- Calculate the total amount on an Order.
- Calculate the line amount for each Line Item based on quantity selected and price.
- Move Line Items to a different Order if a Line Item is not in stock.

Which relationship implementation supports these requirements?

Line Item has a Master-Detail field to Order and the Master can be re-parented.

- A developer is implementing an Apex class for a financial system. Within the class, the variables 'creditAmount' and 'debitAmount' should not be able to change once a value is assigned.

In which two ways can the developer declare the variables to ensure their value can only be assigned one time?

Choose 2 answers

- Use the final keyword and assign its value when declaring the variable.

B. Use the final keyword and assign its value in the class constructor.

6. Which action may cause triggers to fire?

Updates to feed items

7. Universal Containers wants a list button to display a Visualforce page that allows users to edit multiple records.

Which Visualforce feature supports this requirement?

recordSetVar page attribute

8. A developer wants to invoke an outbound message when a record meets a specific criteria.

Which three features satisfy this use case?

Choose 3 answers

B. Process Builder can be used to check the record criteria and then call Apex code.

C. Workflows can be used to check the record criteria and send an outbound message.

E. Approval Process has the capability to check the record criteria and send an outbound message without Apex code.

9. A developer has an Apex controller for a Visualforce page that takes an ID as a URL parameter.

How should the developer prevent a cross site scripting vulnerability?

`ApexPages.currentPage().getParameters().get("url_param").escapeHtml4()`

10. In the following example, which sharing context will myMethod execute when it is invoked?

`public Class myClass { public void myMethod() { / implementation */ }`

Sharing rules will be inherited from the calling context.

11. A developer needs to have records with specific field values in order to test a new Apex class.

What should the developer do to ensure the data is available to the test?

Use `Test.loadData()` and reference a static resource.

12. Instead of sending emails to support personnel directly from Salesforce, Universal Containers wants to notify an external system in the event that an unhandled exception occurs.

What is the appropriate publish/subscribe logic to meet this requirement?

Publish the error event using the `Eventbus.publish()` method and have the external system subscribe to the event using CometD.

13. Which exception type cannot be caught?

`LimitException`

14. The Job Application\_c custom object has a field that is a Master-Detail relationship to the Contact object, where the Contact object is the Master. As part of a feature implementation, a

developer needs to retrieve a list containing all Contact records where the related Account Industry is Technology while also retrieving the contact's Job Application\_c records.

Based on the object's relationships, what is the most efficient statement to retrieve the list of contacts?

[SELECT id, (SELECT Id FROM Job\_Applications\_r FROM Contact WHERE Account.Industry = 'Technology');

15. Given the following Anonymous Block:

```
List<Case> casesToUpdate = new List<Case>(); for (Case thisCase: [SELECT id, Status FROM Case LIMIT 50000]){
    thisCase.Status = 'Working';
    casesToUpdate.add(thisCase);
}
try{
    Database.update (casesToUpdate, false);
} catch(Exception e){
    System.debug (e.getMessage());
}
```

What should a developer consider for an environment that has over 10.000 Case records?

The transaction will fail due to exceeding the governor limit.

16. A team of developers is working on a source-driven project that allows them to work independently, with many different org configurations. Which type of Salesforce orgs should they use for their development?

Scratch orgs

17. Which statement describes the execution order when triggers are associated to the same object and event?

Triggers are executed in the order they are created.

18. A Next Best Action strategy uses an Enhance Element that invokes an Apex method to determine a discount level for a Contact, based on a number of factors.

What is the correct definition of the Apex method?

@InvocableMethod

```
global static List<List<Recommendation>> getLevel (List<ContactWrapper> input) {
/*implementation*/ }
```

19. A developer wants to import 500 Opportunity records into a sandbox.

Why should the developer choose to use Data Loader instead of Data Import Wizard?

Data Import Wizard does not support Opportunities.

20. Which two are best practices when it comes to Aura component and application event handling?

Choose 2 answers

Handle low-level events in the event handler and re-fire them as higher-level events.

Reuse the event logic in a component bundle, by putting the logic in the helper.

21. A custom picklist field, Food Preference\_, exists on a custom object. The picklist contains the following options: "Vegan, Kosher", 'No Preference. The developer must ensure a value is populated every time a record is created or updated.

Mark the field as Required on the field definition.

22. What are three benefits of using declarative customizations over code?

Choose 3 answers

Declarative customizations do not require user testing

Declarative customizations automatically update with each Salesforce release.

Declarative customizations generally require less maintenance.

23. What are two ways a developer can get the status of an enqueued job for a class that implements the queueable interface?

Choose 2 answers

Query the AsyncApexJob object

View the Apex Jobs Page

24. What is the result of the following code?

Account a = new Account();

Database.insert(a, false);

The record will not be created and no error will be reported.

25. How many Accounts will be inserted by the following block of code?

for(Integer i = 0; i < 500; i++)  
 Account a = new Account();

a.Name = 'New ' + i;  
 Database.insert(a);

0

26. Which three steps allow a custom Scalable Vector Graphic (SVG) to be included in a Lightning web component?

Import the static resource and provide a variable for it in JavaScript.

Upload the SVG as a static resource.

Reference the import in the HTML template.

27. An Opportunity needs to have an amount rolled up from a custom object that is not in a Master/Detail relationship. How can this be achieved?

**Write a trigger on the child object and use an aggregate function to sum the amount for all related child objects under the Opportunity.**

28. When a user edits the Postal Code on an Account, a custom Account text field named timezone must be updated based on the values in a PostalCodeToTimezone e custom object.

**Build an account custom trigger.**

29. A developer created these three Rollup Summary fields in the custom object., Project :

Total Timesheets\_c

Total Approved Timesheets\_ Total Rejected Timesheet\_c

The developer is asked to create a new field that shows the ratio between rejected and approved timesheets for a given project.

What are two benefits of choosing a formula field instead of an Apex trigger to fulfill the Choose 2 answers

**A test class that validates the formula field is needed for deployment.**

**A formula field will calculate the value retroactively for existing records.**

30. An org has an existing Flow that creates an Opportunity with an Update Records element. A developer must update the Flow to also create a Contact and store the created Contact's ID on the Opportunity.Which update should the developer make in the Flow?

**Add a new Create Records element.**

31. Universal Containers (UC) wants to lower its shipping cost while making the shipping process more efficient. Distribution Officer advises UC to implement global addresses to allow multiple Accounts to share a default pickup address. The developer is tasked to create the supporting object and relationship for this business requirement and uses the Setup Menu to create a custom object called "Global Address".The Which field should the developer add to create the most efficient model that supports the business need?

**Add a Lookup field on the Account object to the Global Address object.**

32. What should a developer use to obtain the Id and Name of all the Leads, Accounts, and Contacts that have company name "Universal Containers"?

**FIND 'Universal Containers IN Name Fields RETURNING lead(id, name), accountid, name), contact(id, name)**

33. Flow Builder uses an Apex Action to provide additional information about multiple Contacts, stored in a custom class, Contact Info. Which is the correct definition of the Apex method that gets the additional information?

```
@InvocableMethod (label='Additional Info's  
public static List<ContactInfo> getInfo(List<id> contactIds)  
{implementation /}
```

34. How does the Lightning Component framework help developers implement solutions faster?

By providing device-awareness for mobile and desktops

35. developer has to identify a method in an Apex class that performs resource intensive actions in memory iterating over the result set of a SOQL statement on the account. The method also performs a DML statement to save the changes to the database. Which two techniques should the developer implement as a best practice to ensure transaction control and avoid exceeding governor limits?

Use the System.Limit class to monitor the current CPU governor limit consumption.  
Use the Database.Savepoint method to enforce database integrity.

36. A developer considers

```
Boolean is180R  
integer x:  
String theString 'Hello':  
if (is180R == false as theString 'Hello') {  
    3 eleif (LOK true as theString 'Hello') {  
        x = 2;  
    } else if (is180R - null as theString 'Hello') {  
    } else {
```

the following snippet of code:

Based on this code, what is the value of x?

4

37. Which action causes a before trigger to fire by default for Accounts?

Importing data using the Data Loader and the Bulk API

38. Which three statements are true regarding custom exceptions in Apex?

Choose 3 answers

A custom exception class can implement one or many interfaces.

A custom exception class name must end with "Exception"

A custom exception class must extend the system Exception class.

39. developer created a new trigger that inserts Task when a new Lead is created. After deploying to production, an outside integration that reads task records is periodically reporting errors.

which change should the developer make to ensure the integration is not affected with minimal impact to business logic?

**Use the Database method with allOrNone set to False.**

40. Which two characteristics are true for Aura component events?

Choose 2 answers

The event propagates to every owner in the containment hierarchy.

If a container component needs to handle a component event add a handleFacets="capture" attribute to its handler

41. Which two operations can be performed using a formula field?

Choose 2 answers

Displaying an Image based on the Opportunity Amount

Calculating a score on a Lead based on the information from another field

42. A developer must implement a CheckPayment Processor class that provides check processing payment capabilities that adhere to what is defined for payments in the Payment Processor interface.

```
public interface Payment Processor { void pay (Decimal amount);  
}
```

Which is the correct implementation to use the Payment Processor interface class?

```
public class CheckPayment Processor implements Payment Processor {  
    public void pay (Decimal amount) {}  
}
```

43. A developer has an integer variable called maxAttempts. The developer needs to ensure that once maxAttempts is initialized, it preserves its value for the length of the Apex transaction; while being able to share the variable's state between trigger executions. How should the developer declare maxAttempts to meet these requirements?

**Declare maxAttempts as a constant using the static and final keywords.**

44. Which process automation should be used to send an outbound message without using Apex code?

**Workflow Rule**

45. Which Apex class contains methods to return the amount of resources that have been used for a particular governor, such as the number of DML statements?

**Limits**

46. While working in a sandbox, an Apex test fails when run in the Test Framework. However, running the Apex tant logic in the Execute Anonymous window succeeds with no exceptions or errors. Why did the method fail in the sandbox test framework but succeed in the Developer Console?

The test method relies on existing data in the sandbox.

47. Which scenario is valid for execution by unit tests?

Set the created date of a record using a system method.

48. A developer wants to get access to the standard price book in the org while writing a test dass that covers an OpportunityLineItem trigger.

Which method allows access to the price book?

Use Test.getStandard PricebookId() to get the standard price book ID.

49. Which three data types can a SOQL query return?

Integer

sObject

List

50. A developer has two custom controller extensions where each has a save() method.

Which save() method will be called for the following Visualforce page?

```
<apex:page standardController="Account", extensions="ExtensionA, Extension">
<apex:commandButton action="save()" value="Save"/>
</apex:page>
```

standard controller save()

51. Universal Containers wants to notify an external system, in the event that an unhandled exception occurs, by publishing a custom event using Apex. What is the appropriate publish/subscribe logic to meet this requirement?

Publish the error event using the EventBus.publish () method and have the external system subscribe to the event using CometD.

52. A developer is tasked to perform a security review of the Contact Search Apex class that exists in the system. Within the class, the developer identifies the following method as a security threat:

```
List Contact performsearch(String lastName){
```

```
return Database.query('SELECT id, FirstName, LastName FROM Contact WHERE LastName Like
%'+lastName+'');
```

}

What are two ways the developer can update the method to prevent a SOQL injection attack?

Choose 2 answers

Use variable binding and replace the dynamic query with a static SOQL.

Use the escapeSingleQuotes method to sanitize the parameter before its use.

53. A developer must create a Lightning component that allows users to input Contact record Information to create a Contact record, including a Salary\_c custom field. What should the developer use, along with a lightning-record-edit-form, so that Salary\_c field functions as a currency input and is only viewable and editable by users that have the correct field level permissions on Salary\_c?

```
<lightning-input-field field-name="Salary_c"></lightning-input-field>
```

54. Universal Containers stores Orders and Line Items in Salesforce. For security reasons, financial representatives are allowed to see information on the Order such as order amount, but they should not be allowed to see the Line Items on the Order. Which type of relationship should be used between Orders and Line Items?

Lookup

55. Universal Containers has an order system that uses an Order Number to identify an order for customers and service agents. Order records will be imported into Salesforce. How should the Order Number field be defined in Salesforce?

Number with External ID

56. Which Lightning code segment should be written to declare dependencies on a Lightning component, c:accountList, that is used in a Visualforce page?

```
<aura:application access="GLOBAL" extends="ltng:outApp"> <aura:dependency  
resource="c:accountList"/>  
  
</aura:application>
```

57. Universal Containers decides to use exclusively declarative development to build out a new Salesforce application. Which three options should be used to build out the database layer for the application? Choose 3 answers

Custom objects and fields

Roll-up summaries

Relationships

58. A developer must troubleshoot to pinpoint the causes of performance issues when a custom page loads in their org. Which tool should the developer use to troubleshoot?

Developer Console

59. Which aspect of Apex programming is limited due to multitenancy?

The number of records returned from database queries

60. Which Salesforce feature allows a developer to see when a user last logged in to Salesforce if real-time notification is not required?

Event Monitoring Log

61. A developer must create a Credit Card Payment class that provides an implementation of an existing Payment class.

```
public virtual class Payment {  
    public virtual void makePayment (Decimal amount) { /*implementation*/ }
```

Which is the correct implementation?

```
public class CreditCardPayment extends Payment{  
    public override void makePayment (Decimal amount){/*implementation*/}  
}
```

62. Universal Containers has a large number of custom applications that were built using a third-party JavaScript framework and exposed using Visualforce pages. The company wants to update these applications to apply styling that resembles the look and feel of Lightning Experience. What should the developer do to fulfill the business request in the quickest and most effective manner?

**Set the attribute enableLightning to true in the definition.**

63. A development team wants to use a deployment script to automatically deploy to a sandbox during their development cycles. Which two tools can they use to run a script that deploys to a sandbox?

Choose 2 answers

**VSCode**

**SFDX CLI**

**Ant Migration tool**

64. What are three ways for a developer to execute tests in an org? Choose 3 answers

**Metadata API**

**Setup Menu**

**Tooling API**

65. An Approval Process is defined in the Expense\_Item\_c object. A business rule dictates that whenever a user changes the Status to 'Submitted' on an Expense Report record, all the Expense Item\_c records related to the expense report must enter the approval process individually. Which approach should be used to ensure the business requirement is met?

**Create a Process Builder on Expense\_Report\_c with a 'Submit for Approval' action type to submit all related Expense Item\_records when the criteria is met.**

62 of 65. A custom object Trainer\_c has a lookup field to another custom object Gym\_c.

Which SOQL query will get the record for the Viridian City Gym and all its trainers?

**SELECT id, (SELECT Id FROM Trainer\_c) FROM Gym WHERE Name = 'Viridian City Gym'**

61 of 65. A developer is debugging the following code to determine why Accounts are not being created.

Account a new Account (Name = 'A');

Database.insert (a, false);

How should the code be altered to help debug the issue?

C.Collect the insert method return value in a SaveResult record.

59 of 65. A developer needs to implement a custom SOAP Web Service that is used by an external Web Application. The developer chooses to include helper methods that are not used by the Web Application in the implementation of the Web Service Class.

Which code segment shows the correct declaration of the class and methods?

C. global class Webserviceclass {  
private Boolean helperMethod (){ / implementation ... /}  
global string update Records () { / implementation ... / }

58 of 65. A developer is tasked by Universal Containers to build out a system to track the container repair process. Containers should be tracked as they move through the repair process, starting when a customer reports an issue and ending when the container is returned to the customer.

Which solution meets these business requirements while following best practices?

C. Build a customized Lightning Application using Application Events to ensure data integrity.

55 of 65. In terms of the MVC paradigm, what are two advantages of implementing the view layer of a Salesforce application using Lightning Web Component-based development over Visualforce?

Self-contained and reusable units of an application

Rich component ecosystem

51 of 65. A developer needs to create a custom button for the Account object that, when clicked, will perform a series of calculations and redirect the user to a custom Visualforce page.

Which three attributes need to be defined with values in the <apex:page> tag to accomplish this?

B. action

C. standardController

D. renderAs

50 of 65. Universal Containers uses a Master-Detail relationship and stores the availability date on each Line Item of an Order and Orders are only shipped when all of the Line Items are available..

Which method should be used to calculate the estimated ship date for an Order?

**Use a MAX Roll-Up Summary field on the latest availability date fields.**

49 of 65. What are two ways for a developer to execute tests in an org?

Choose 2 answers

**Metadata API**

**Tooling API**

44 of 65. For which three items can a trace flag be configured?

Choose 3 answers

**B. Apex Class**

**C. Apex Trigger**

**D. User**

43 of 65. A developer is creating a page that allows users to create multiple Opportunities. The developer is asked to verify the current user's default Opportunity record type, and set certain default values based on the record type before inserting the record.

How can the developer find the current user's default record type?

**A. Use Opportunity.SObjectType.getDescribe().getRecord TypeInfos() to get a list of record types, and iterate through them until isDefaultRecord TypeMapping() is true.**

42 of 65. A developer writes a trigger on the Account object on the before update event that increments a count field. A workflow rule also increments the count field every time that an Account is created or updated. The field update in the workflow rule is configured to not re-evaluate workflow rules. What is the value of the count field if an Account is inserted with an initial value of zero, assuming no other automation logic is implemented

on the Account?

**2**

40 of 65. A developer wants to mark each Account in a List<Account> as either Active or Inactive based on the LastModifiedDate field value being more than 90 days.

**C. A for loop, with an if/else statement inside.**

39 of 65. Refer to the following code that runs in an Execute Anonymous block:

```
for (List<Lead> theseLeads: [SELECT LastName, Company, Email FROM Lead LIMIT 20000])(  
    thisLead.Email = assignGenericEmail (thisLead.LastName, thisLead.Company);  
  
    for (Lead thisLead: theseLeads) {  
  
        if(thisLead.Email == null)  
  
            Database.Update (theseLeads, false);
```

In an environment where the full result set is returned, what is a possible outcome of this code?

**The transaction will succeed and the full result set changes will be committed to the database.**

37 of 65. A developer needs to create a baseline set of data (Accounts, Contacts, Products, Assets) for an entire suite of tests allowing them to test independent requirements various types of Salesforce Cases.

Which approach can efficiently generate the required data for each unit test?

**D. Use @TestSetup with a void method**

36 of 65. What can be developed using the Lightning Component framework?

**B. Single-page web apps**

35 of 65. Universal Containers (UC) uses a custom object called Vendor. The Vendor custom object has a Master-Detail relationship with the standard Account object. Based on some internal discussions, the UC administrator tried to change the Master-Detail relationship to a Lookup relationship but was able to do so.

What is a possible reason that this change was not permitted?

**C. The Account records contain Vendor roll-up summary fields.**

34 of 65. A developer must create a DrawList class that provides capabilities defined in the Sortable and Drawable interfaces.

```
public interface Sortable{  
    void sort ();  
}  
  
public interface Drawable {  
    void draw();  
}
```

Which is the correct implementation?

A.

```
public class DrawList extends Sortable, Drawable {  
  
    public void sort() {  
        //implementation  
    }  
  
    public void draw() {  
        //implementation  
    }  
}
```

33 of 65. While writing an Apex class that creates Accounts, a developer wants to make sure that all required fields are handled properly.

Which approach should the developer use to be sure that the Apex class works correctly without adding or changing data in the org?

**Run the code in an Execute Anonymous block in the Developer Console.**

32 of 65. How should a developer write unit tests for a private method in an Apex class?

D. Use the `TestVisible` annotation.

31 of 65. A developer wants to retrieve the Contacts and Users with the email address '`dev@uc.com`'.

Which SOSL statement should the developer use?

**FIND (`dev@uc.com`) IN Email Fields RETURNING Contact (Email), User (Email)**

30 of 65. Which two events need to happen when deploying to a production org?

Choose 2 answers

A. All triggers must have some test coverage.

**All Apex code must have at least 75% test coverage.**

29 of 65. A developer is asked to create a Visualforce page that displays some Account fields as well as fields configured on the page layout for related Contacts.

How should the developer implement this request?

A. Use the `<apex:relatedList>` tag.

27 of 65. The sales management team at Universal Containers requires that the Lead Source field of the Lead record be populated when a Lead is converted.

What should be used to ensure that a user populates the Lead Source field prior to converting a Lead?

**A. Validation Rule**

26 of 65. What is a fundamental difference between a Master-Detail relationship and a Lookup relationship?

**A. A Master-Detail relationship detail record inherits the sharing and security of its master record.**

24 of 65. A developer must modify the following code snippet to prevent the number of SOQL queries issued from exceeding the platform governor limit.

```
public without sharing class Opportunityservice{
```

```
    public static List<OpportunityLineItem> getOpportunity Products (Set<Id> opportunityIds) {
```

```
        List<OpportunityLineItem> oppLineItems = new List<OpportunityLineItem>();
```

```
        for (Id thisOppId: opportunityIds) { oppLineItems.addAll([Select Id FROM OpportunityLineItem WHERE OpportunityId= :thisOppid]);
```

```
    return oppLineItems;
```

The above method might be called during a trigger execution via a Lightning component.

Which technique should be implemented to avoid reaching the governor limit?

**B. Use the system.Limits.getQueries () method to ensure the number of queries is less than 100.**

21 of 65. Universal Containers wants to back up all of the data and attachments in its Salesforce org once a month.

Which approach should a developer use to meet this requirement?

**A. Define a Data Export scheduled job.**

19 of 65.Which code displays the contents of a Visualforce page as a PDF?

**B. <apex:page renderas="pdf">**

17 of 65.A custom Visualforce controller calls the ApexPages.addMessage() method, but no messages are rendering on the page.

Which component should be added to the Visualforce page to display the message?

- A. <apex: pageMessages />

16 of 65. A company has been adding data to Salesforce and has not done a good job of limiting the creation of duplicate Lead records. The developer is considering writing an Apex process to identify duplicates and merge the records together.

Which two statements are valid considerations when using merge?

- C. Merge is supported with accounts, contacts, and leads.

D. The merge method allows up to three records with the same sObject type to be merged into one record.

15 of 65. A developer has a single custom controller class that works with a Visualforce Wizard to support creating and editing multiple sObjects. The wizard accepts data from user inputs across multiple Visualforce pages and from a parameter on the initial URL.

Which three statements are useful inside the unit test to effectively test the custom controller?

Choose 3 answers

- A. ApexPages.currentPage().getParameters().put('input', 'TestValue');
- B. Test.setCurrentPage(pageRef);
- C. String nextPage= controller.save().getUrl();

14 of 65.Which two statements are true about Getter and Setter methods as they relate to Visualforce?

Choose 2 answers

- B. Getter methods pass values from a controller to a page.
- C. A corresponding Setter method is required for each Getter method.

10 of 65. Assuming that 'name' is a String obtained by an <apex: inputText> tag on a Visualforce page, which two SOQL queries performed are safe from SOQL injection?

```
string query = 'SELECT Id FROM Account WHERE Name LIKE \'%' + String.escapeSingleQuotes(name) + '%\' ;
```

```
String query = '%' + name + '%' ;
```

```
List<Account> results= (SELECT Id FROM Account WHERE Name LIKE :query);
```

5 of 65. Given the following code snippet, that is part of a custom controller for a Visualforce page:

```
public void update Contact (Contact this contact) {  
  
    thisContact.IsActive_c = false;  
  
    Calculator  
  
    update thisContact;  
  
    catch (Exception e) {  
  
        String errorMessage = 'An error occurred while updating the Contact. e.getMessage()' ;  
        ApexPages.addmessage (new ApexPages.message (ApexPages.severity. FATAL, errorMessage));  
    }  
}
```

In which two ways can the try/catch be enclosed to enforce object and field-level permissions and prevent the DML statement from being executed if the current logged-in user does not have the appropriate level of access?

Choose 2 answers

Use if (this contact.OwnerIdUserInfo.getUserId())

D. Use if (Schema.sObjectType.Contact.isUpdatable ())

4 of 65. A developer needs to prevent the creation of Request\_c records when certain conditions exist in the system. A RequestLogic class exists that checks the conditions.

What is the correct implementation?

```
trigger RequestTrigger on Request__c (before insert) {  
  
    RequestLogic.validateRecords (trigger.new);  
}
```

3 of 65. Which three Salesforce resources can be accessed from a Lightning web component?

Choose 3 answers

Content asset files

Static resources

SVG resources

# New set

1 of 65.

Einstein Next Best Action is configured at Universal Containers to display recommendations to internal users on the Account detail page.

If the recommendation is approved, a new opportunity record and task should be generated. If the recommendation is rejected, an Apex method must be executed to perform a callout to an external system.

Which three factors should a developer keep in mind when implementing the Apex method?

Choose 3 answers

A. The method must be defined as public.

B. The method must use the @Future annotation.

C. The method must use the @Aura Enabled annotation.

D. The method must use the @invocableMethod annotation.

E. The method must be defined as static.

2 of 65. A developer creates a custom exception as shown below:

```
public class ParityException extends Exception {}
```

What are two ways the developer can fire the exception in Apex ?

Choose 2 answers

- A. **throw new ParityException();**
- B. new ParityException();
- C. new ParityException ('parity does not match');
- D. **throw new ParityException ('parity does not match');**

3 of 65. What should a developer use to fix a Lightning web component bug in a sandbox?

A. Developer Console

B. Execute Anonymous

C. Force.com IDE

**D. VS Code**

4 of 65. What is the result of the following code?

```
Account a = new Account();
```

```
Database.insert(a, false);
```

- A. **The record will not be created and no error will be reported.**
- B. The record will be created and no error will be reported.
- C. The record will not be created and an exception will be thrown.
- D. The record will be created and message will be in the debug log.

5 of 65. Which two characteristics are true for Aura component events?

Choose 2 answers

- A. Depending on the current propagation phase, calling event.stopPropagation () may not stop the event propagation.
- B. If a container component needs to handle a component event, add a includeFacets="true" attribute to its handler.
- C. The event propagates to every owner in the containment hierarchy.
- D. By default, containers can handle events thrown by components they contain.

7 of 65. The Salesforce Administrator created a custom picklist field, Account Status\_\_c, on the Account object. This picklist has possible values of "Inactive" and "Active".

As part of a new business process, management wants to ensure an opportunity record is created only for Accounts marked as "Active". A developer is asked to implement this business requirement.

Which two automation tools should be used to fulfill the business need?

Choose 2 answers

- A. Workflow Rules
- B Approval Process
- C. Process Builder
- D. Salesforce Flow

11 of 65. Universal Containers uses Service Cloud with a custom field, stage\_, on the Case object.

Management wants to send a follow-up email reminder 6 hours after the stage\_c field is set to "Waiting on Customer". The Salesforce Administrator wants to ensure the solution used is bulk safe.

Choose 2 answers

- A. Einstein Next Best Action:
- B. Record-Triggered Flow
- C. Scheduled Flow
- D. Process Builder

13 of 65. A Salesforce Administrator used Flow Builder to create a flow named "accountOnboarding". The flow must be used inside an Aura component.

Which tag should a developer use to display the flow in the component?

- A. Aura: flow
- B. aura-flow
- C. lightning: flow
- D. lightning-flow

14 of 65. Universal Containers is building a recruiting app with an Applicant object that stores information about an individual person and a Job object that represents a job. Each applicant may apply for more than one job.

What should a developer implement to represent that an applicant has applied for a job ?

- A. Lookup field from Applicant to Job
- B. Master-detail field from Applicant to Job
- C. Formula field on Applicant that references Job
- D. Junction object between Applicant and Job

15 of 65. As part of a data cleanup strategy, AW Computing wants to proactively delete associated opportunity records when the related Account is deleted.

Which automation tool should be used to meet this business requirement?

- A. Workflow Rules
- B. Record-Triggered Flow
- C. Process Builder
- D.Scheduled Job

16 of 65. A developer created this Apex trigger that calls MyClass.myStaticMethod:

trigger myTrigger on Contact (before insert)

{

    MyClass.myStaticMethod (trigger.new); }

The developer creates a test class with a test method that calls MyClass.myStaticMethod directly, resulting in 81% overall code coverage.

What happens when the developer tries to deploy the trigger and two classes to production, assuming no other code exists?

- A. The deployment passes because the Apex code has the required >75% code coverage.

- B. The deployment fails because the Apex trigger has no code coverage.
- C. The deployment fails because no assertions were made in the test method.
- D. The deployment passes because both classes and the trigger were included in the deployment.

17 of 65. A developer is asked to create a Visualforce page that lists the contacts owned by the current user. This component will be embedded in a Lightning page.

Without writing unnecessary code, which controller should be used for this purpose?

- A. Standard list controller
- B. Custom controller
- C. Lightning controller
- D. Standard controller

18 of 65. A developer created a Lightning web component called statusComponent to be inserted into the Account record page.

Which two things should the developer do to make this component available?

Choose 2 answers

- A. Add `<asterLabel>Account</asterLabel>` to the `statusComponent.js-meta.xml` file.
- B. Add `<target>lightning_RecordPage</target>` to the `statusComponent.js` file.
- C. Add `<target>lightning_RecordPage</target>` to the `statusComponent.ja-meta.xml` file.
- D. Add `<isExposed>true</isExposed>` to the `statusComponent.js-meta.xml` file.

19 of 65. Considering the following code snippet:

```
public static void insertAccounts (List<Account> theseAccounts) {  
    for (Account thisAccount: theseAccounts) {  
        if (thisAccount.website == null) {  
  
            thisAccount.website = 'https://ann.demo.com';  
        }  
    }  
    update theseAccounts;
```

}

When the code executes, a DML exception is thrown.

How should the developer modify the code to ensure exceptions are handled gracefully?

A. Implement the upsert DML statement

B. Implement Change Data Capture.

C. Remove null items from the list of Accounts.

D. Implement a try/catch block for the DML.

20 of 65. A software company uses the following objects and relationships:

- Case: to handle customer support issues
- Defect\_c: a custom object to represent known issues with the company's software
- Defect\_e: a junction object between Case and Defecte to represent that a defect is a cause of a customer issue

Case and Defect\_c have Private organization-wide defaults.

What should be done to share a specific case\_Defect\_c record with a user?

A. Share the parent Case and Defecte records.

B. Share the parent Case record.

C. Share the parent Defecte record.

D. Share the case\_Defect\_c record.

21 of 65. Universal Containers has a support process that allows users to request support from its engineering team using a custom object, Engineering Support\_c.

Users should be able to associate multiple Engineering Support\_e records to a single Opportunity record. Additionally, aggregate information about the Engineering Support\_e records should be shown on the Opportunity record.

What should a developer implement to support these requirements?

A. Master-detail field from Engineering Support to Opportunity

B. Master-detail field from Opportunity to Engineering\_Support\_\_c

C. Lookup field from Engineering Support to Opportunity

D. Lookup field from Opportunity to Engineering Support\_c

22 of 65. Universal Containers has a Visualforce page that displays a table of every Container\_c being rented by a given Account. Recently this page is failing with a view state limit because some of the customers rent over 10,000 containers.

What should a developer change about the Visualforce page to help with the page load errors?

- A. Use JavaScript remoting with SOQL Offset.
- B. Implement pagination with a StandardSetController.
- C. Implement pagination with an OffsetController.
- D. Use lazy loading and a transient List variable.

23 of 65. A developer completed modifications to a customized feature that is comprised of two elements:

- Apex trigger
- Trigger handler Apex class

What are two factors that the developer must take into account to properly deploy the modification to the production environment?

Choose 2 answers

A. Test methods must be declared with the testMethod keyword.

B. At least one line of code must be executed for the Apex trigger.

C. Apex classes must have at least 75% code coverage org-wide.

D. All methods in the test classes must use isest.

24 of 65. The following automations already exist on the Account object:

- A workflow rule that updates a field when a certain criteria is met
- A custom validation on a field
- A flow that updates related contact records

A developer created a trigger on the Account object.

What should the developer consider while testing the trigger code?

- A. The flow may be launched multiple times.
- B. Workflow rules will fire only after the trigger has committed all DML operations to the database.
- C. The trigger may fire multiple times during a transaction.**
- D. A workflow rule field update will cause the custom validation to run again.

25 of 65. A developer is tasked with performing a complex validation using Apex as part of advanced business logic. When certain criteria are met for a Purchase Order, the developer must throw custom exception.

What is the correct way for the developer to declare a class that can be used as an exception?

- A. public class Purchase Order implements Exception()
- B. public class Purchase OrderException implements Exception()
- C. public class Purchase Order extends Exception()
- D. public class Purchase OrderException extends Exception()**

26 of 65. Which two sfdx commands can be used to add testing data to a Developer sandbox?

Choose 2 answers

- A. force:data: tree: import**
- B.force:data: async:upsert
- C.force:data: object:create
- D.force:data:bulk:upsert**

27 of 65. A developer created these three Rollup Summary fields in the custom object, Project\_c.:

Total Timesheets\_\_c

Total Approved Timesheets\_\_c

Total Rejected\_Timesheet\_c

The developer is asked to create a new field that shows the ratio between rejected and approved timesheets for a given project.

What are two benefits of choosing a formula field instead of an Apex trigger to fulfill the request?

Choose 2 answers

- A. A formula field will trigger existing automation when deployed.
- B. A formula field will calculate the value retroactively for existing records.
- C. Using a formula field reduces maintenance overhead.
- D. A test class that validates the formula field is needed for deployment.

28 of 65.What should a developer use to script the deployment and unit test execution as part of continuous integration?

- A. Salesforce CLI
- B. Execute Anonymous
- C. Developer Console
- D. VS Code

29 of 65. A developer has a requirement to write Apex code to update a large number of account records on a nightly basis. The system administrator needs to be able to schedule the class to run after business hours on an as-needed basis.

Which class definition should be used to successfully implement this requirement?

- A. global inherited sharing class ProcessAccount Processor implements Database.  
Batchable<sObject>, Schedulable
- B. global inherited sharing class ProcessAccount Processor implements  
Database.Batchable<sObject>
- C. global inherited sharing class Process Account Processor implements Queueable
- D. global inherited sharing class ProcessAccount Processor implements Schedulable

30 of 65.A developer created a trigger on the Account object and wants to test if the trigger is properly bulkified. The developer team decided that the

trigger should be tested with 200 account records with unique names.

What two things should be done to create the test data within the unit test with the least amount of code?

Choose 2 answers

- A. Use the BisTest (isParallel=true) annotation in the test class.
- B. Use the @isTest (seeAllData=true) annotation in the test class.

C. Use Test.loadData to populate data in your test methods.

D. Create a static resource containing test data.

31 of 65. AW Computing (AWC) handles orders in Salesforce and stores its product inventory in a field, Inventory\_e, on a custom object, Product\_c. When an order for a Product\_c is placed, the Inventory\_c field is reduced by the quantity of the order using an Apex trigger.

```
public void reduce Inventory (Id prold, Integer qty) {  
    Integer newInventoryAmt = getNewInventoryAmt(prodid, quy),  
    Product e p = new Product_c (Id = prodid, Inventory = newInventoryAmt);  
    update p;  
  
    // code goes here  
  
}
```

AWC wants the real-time inventory reduction for a product to be sent to many of its external systems, including some future systems the company is currently planning.

What should a developer add to the code at the placeholder to meet these requirements?

A.InventoryReductionEvent\_e ev = new InventoryReductionEvent\_e (ProductId\_\_c= prodid,  
Reduction\_c = qty);  
EventBus.publish (ev);

B.InventoryReductionEvent\_c ev = new InventoryReductionEvent\_c (Productie = prodid, duction\_c  
= qty);  
insert ev;

C.InventoryReductionEvent\_c ev = new InventoryReductionEvent ProductId\_\_prodid, Reduction\_\_  
= qey);  
EventBus publish (ev);

32 of 65. What are two use cases for executing Anonymous Apex code?

Choose 2 answers

- A. To schedule an Apex class to run periodically
- B. To add unit test code coverage to an org.
- C. To run a batch Apex class to update all Contacts
- D. To delete 15,000 inactive Accounts in a single transaction after a deployment.

33 of 65. Refer to the following Apex code:

```
Integer x = 0;  
do {  
    x = 1;  
    x++;  
} while (x < 1);  
System.debug (x);
```

What is the value of x when it is written to the debug log?

A. 0

B. 1

C.2

D. 3

34 of 65. Cloud Kicks has a multi-screen flow that its call center agents use when handling inbound service desk calls.

At one of the steps in the flow, the agents should be presented with a list of order numbers and dates that are retrieved from an external order management system in real time and displayed on the screen.

What should a developer use to satisfy this requirement?

- A. An Apex REST class
- B. An outbound message
- C. An invocable method
- D. An Apex controller

35 of 65. A developer is creating an app that contains multiple Lightning web components.

One of the child components is used for navigation purposes. When a user clicks a button called Next in the child component, the parent component must be alerted so it can navigate to the next page.

How should this be accomplished?

- A. Create a custom event.
- B. Fire a notification.
- C. Update a property on the parent.
- D. Call a method in the Apex controller.

36 of 65. A Developer Edition org has five existing accounts. A developer wants to add 10 more accounts for testing purposes.

The following code is executed in the Developer Console using the Execute Anonymous window:

```
Account myaccount = new Account (Name = 'MyAccount');
```

```
insert myAccount;
```

```
Integer x = 1;
```

```
List<Account> newAccounts = new List<Account>();
```

```
do (
```

```
Account acct = new Account (Name = 'New Account  
newAccounts.add(acct);
```

```
while (x < 10);
```

How many total accounts will be in the org after this code is executed?

A. 5

B. 6

C. 10

D. 15

37 of 65. An org tracks customer orders on an Order object and the line items of an Order on the Line Item object. The Line Item object has a Master/Detail relationship to the Order object. A developer has a requirement to calculate the order amount on an Order and the line amount on each Line Item based on quantity and price.

What is the correct implementation?

A. Implement the line amount as a numeric formula field and the order amount as a roll-up summary field.

B. Write a single before trigger on the Line Item that calculates the item amount and updates the order amount on the Order.

C. Implement the line amount as a currency field and the order amount as a SUM formula field.

D. Write a process on the Line Item that calculates the item amount and order amount and updates the fields on the Line Item

38 of 65. A Salesforce Administrator is creating a record-triggered flow. When certain criteria are met, the flow must call an Apex method to execute a complex validation involving several types of objects.

When creating the Apex method, which annotation should a developer use to ensure the method

can be used within the flow?

A. @AuraEnabled

B. @future

C. **InvocableMethod**

D. RemoteAction

39 of 65. A developer is building custom search functionality that uses SOSL to search account and contact records that match search terms provided by the end user. The feature is exposed through a Lightning web component, and the end user is able to provide a list of terms to search.

Consider the following code snippet:

```
@AuraEnabled
```

```
public static List<List<sobject>> searchTerms (List<String> termList) {  
    List<List<sobject>> result = new List<List<sObject>>();
```

```
    for (String term: termList) {
```

```
        result.addAll([FIND iter IN ALL FIELDS RETURNING Account (Name), Contact (FirstName,  
        LastName))];
```

```
    return result;
```

What is the maximum number of search terms the end user can provide to successfully execute the search without exceeding a governor

limit?

A. 20

**B. 150**

C. 200

D. 2,000

40 of 65. The following code snippet is executed by a Lightning web component in an environment with more than 2,000 lead records:

@AuraEnabled

```
public void static updateleads () {
```

```
for (Lead thisLead: [SELECT Origin_ FROM Lead)){
```

```
    thislead. Leadsource= thisLead.Origin;
```

```
    update thislead;
```

Which governor limit will likely be exceeded within the Apex transaction?

A. Total number of records retrieved by SOQL queries

B. Total number of records processed as a result of DML statements

C. Total number of DML statements issued

D. Total number of SOQL queries issued

41 of 65. A developer receives an error when trying to call a global server-side method using the @remoteAction decorator.

How can the developer resolve the error?

A. Change the function signature to be private static.

B. Add static to the server-side method signature.

C. Decorate the server-side method with (static-true).

D. Decorate the server-side method with (static-false).

42 of 65. The OrderHelper class is a utility class that contains business logic for processing orders. Consider the following code snippet:

```
public class without sharing OrderHelper {  
    //code implementation
```

A developer needs to create a constant named DELIVERY MULTIPLIER with a value of 4.15. The value of the constant should not change at any time in the code.

How should the developer declare the DELIVERY\_MULTIPLIER constant to meet the business objectives?

A.constant decimal plIER = 4.15z B.O static final decimal DELIVERY FIDL \* Sigma \* R = 4.15 ;

B.**static final decimal DELIVERY\_MULTIPLIER = 4.15;**

C. decimal DELIVERY MULTIPLIER = 4.15;

D. static decimal DELIVERY MULTIPLIER = 4.15;

44 of 65. A developer created a child Lightning web component nested inside a parent Lightning web component. The parent component needs to pass a string value to the child component.

In which two ways can this be accomplished?

Choose 2 answers

A. The parent component can invoke a method in the child component.

B. The parent component can use the Apex controller class to send data to the child component.

C. **The parent component can use a public property to pass the data to the child component.**

D. **The parent component can use a custom event to pass the data to the child component.**

45 of 65. A developer created a custom order management app that uses an Apex class. The order is represented by an Order object and an OrderItem object that has a master-detail relationship to Order. During order processing, an order may be split into multiple orders.

What should a developer do to allow their code to move some existing OrderItem records to a new Order record?

A. **Select the Allow reparenting option on the master-detail relationship.**

B. Add without sharing to the Apex class declaration.

C. Change the master-detail relationship to an external lookup relationship.

D. Create a junction object between OrderItem and Order.

46 of 65. Which two settings must be defined in order to update a record of a junction object?

Choose 2 answers

- A. Read/Write access on the primary relationship
- B. Read/Write access on the secondary relationship
- C. Read/Write access on the junction object
- D. Read access on the primary relationship

48 of 65. A developer is creating a Lightning web component to show a list of sales records.

The Sales Representative user should be able to see the commission field on each record. The Sales Assistant user should be able to see all fields on the record except the commission field.

How should this be enforced so that the component works for both users without showing any errors?

- A. Use WITH SECURITY ENFORCED in the SOQL that fetches the data for the component.
- B. Use Lightning Locker Service to enforce sharing rules and field-level security.
- C. Use Security.stripInaccessible to remove fields inaccessible to the current user.
- D. Use Lightning Data Service to get the collection of sales records.

50 of 65. Which scenario is valid for execution by unit tests?

- A. Set the created date of a record using a system method.
- B. Load data from a remote site with a callout.
- C. Generate a Visualforce PDF with getContentAsPDF () .
- D. Execute anonymous Apex as a different user.

51 of 65. A developer created a weather app that contains multiple Lightning web components.

One of the components, called Toggle, has a toggle for Fahrenheit or Celsius units. Another component, called Temperature, displays the current temperature in the unit selected in the Toggle component.

When user toggles from Fahrenheit to Celsius or vice versa in the Toggle component, the information must be sent to the Temperature

component so the temperature can be converted and displayed.

What is the recommended way to accomplish this?

A. The Toggle component should call a method in the Temperature component.

B. Create a custom event to handle the communication between components.

C. Use Lightning Message Service to communicate between the components.

D. Use an application event to communicate between the components.

52 of 65. A developer wrote the following two classes:

```
public with sharing class StatusFetcher {  
    private Boolean active = true;  
    private Boolean isActive () { return active;  
    public with sharing class Calculator {
```

```
    public void doCalculations () { StatusFetcher sFetcher = new StatusFetcher();  
        if (sfetcher.isActive()) {  
            // do calculations here  
        }  
    }  
}
```

The StatusFetcher class successfully compiled and saved. However, the Calculator class has a compile time error.

How should the developer fix this code?

A. Change the class declaration for the calculator class to public with inherited sharing.

B. Make the isActive method in the statusfetcher class public.

C. Make the decalculations method in the calculator class private.

D. Change the class declaration for the statusFetcher class to public with inherited sharing.

53 of 65. Management asked for opportunities to be automatically created for accounts with annual revenue greater than \$1,000,000. A developer created the following trigger on the Account object to satisfy this requirement.

```
for (Account a: Trigger.com) {
```

```
    if (a.Annual Revenue > 1000000) {
```

```
        List<Opportunity> oppList (SELECT Id FROM Opportunity WHERE accountId = :a.Id);
```

```
        if (oppList.size() == 0) {
```

```
            Opportunity oppty=new Opportunity (Name= a.name, StageName = 'Prospecting', CloseDate= system.today().addDays(30));
```

```
            insert oppty;
```

Users are able to update the account records via the UI and can see an opportunity created for high annual revenue accounts. However, when the administrator tries to upload a list of 179 accounts using Data Loader, it fails with system.Exception errors.

Which two actions should the developer take to fix the code segment shown above?

Choose 2 answers

- A. Check if all the required fields for Opportunity are being added on creation.
- B. Use Database.query to query the opportunities.
- C. **Query for existing opportunities outside of the for loop.**
- D. **Move the DML that saves opportunities outside of the for loop.**

54 of 65. The code below deserializes input into a list of Accounts.

```
public class AcctCreator {  
    public void insertAccounts () { String acctJson= getAccountJson ();  
  
    List<Account> accts= (List<Account>) JSON.deserialize (acctJson, List<Account>.class);  
  
    // DML to insert accounts  
  
    //... other code including getAccountJson implementation
```

Which code modification should be made to insert the Accounts so that field-level security is respected?

- A. 01: public with sharing class AcctCreator
- B. **05: if (sObjectType.Account.isCreatable())**
- C. 05: accts Database.stripInaccessible (accts, Database.CREATABLE);
- D. 05: SobjectAccessDecision ad Security.stripInaccessible (AccessType.CREATABLE, accts);

55 of 65. Which two statements are true about Getter and Setter methods as they relate to Visualforce?

Choose 2 answers

- A. Setter methods always have to be declared global.
- B. A corresponding Setter method is required for each Getter method.
- C. Getter methods must be named `getVariable` and Setter methods must be named `set Variable`.
- D. Getter methods pass values from a controller to a page.

56 of 65. Get Cloudy Consulting (GCC) has a multitude of servers that host its customers' websites. GCC wants to provide a servers status page that is always on display in its call center. It should update in real time with any changes made to any servers. To accommodate this on the server side, a developer created a Server Update platform event.

The developer is working on a Lightning web component to display the information.

What should be added to the Lightning web component to allow the developer to interact with the Server Update platform event?

- A. import { subscribe, unsubscribe, onError } from lightning/Message Channel'
- B. import subscribe, unsubscribe, onError from 'lightning/pubsub'
- C. import subscribe, unsubscribe, onError) from lightning/ServerUpdate'
- D. import subscribe, unsubscribe, onError) from lightning/empApi';

57 of 65. A business implemented a gamification plan to encourage its customers to watch some educational videos.

Customers can watch videos over several days, and their progress is recorded. Award points are granted to customers for all completed videos. When the video is marked as completed in Salesforce, an external web service must be called so that points can be awarded to the user

A developer implemented these requirements in the after update trigger by making a call to an external web service. However, a `dysten`, `CalloutException` is occurring

What should the developer do to fix this error?

A.Surround the external call with a try-catch block to handle the exception.

B. Move the callout to an asynchronous method with @future(callout=true) annotation.

C.Replace the after update trigger with a before insert trigger

D.Write a REST service to integrate with the external web service.

58 of 65. A developer is migrating a Visualforce page into a Lightning web component.

The Visualforce page shows information about a single record. The developer decides to use Lightning Data Service to access record data.

Which security consideration should the developer be aware of?

A.The with sharing keyword must be used to enforce sharing rules.

B. The isAccessible() method must be used for field-level access checks.

C.Lightning Data Service ignores field-level security.

D. Lightning Data Service handles sharing rules and field-level security.

59 of 65. Universal Containers uses Salesforce to create orders.

When an order is created, it needs to sync with the in-house order fulfillment system. The order fulfillment system can accept SOAP messages over HTTPS. If the connection fails, messages should be retried for up to 24 hours.

What is the recommended approach to sync the orders in Salesforce with the order fulfillment system?

A. Write an Apex SOAP service to integrate with the order fulfillment system.

B. Create an after insert trigger on the Order object to make a callout to the order fulfillment system.

C. Use Process Builder to call an invocable Apex method that sends a message to the order fulfillment system.

D. Set up a Workflow Rule outbound message to the order fulfillment system..

61 of 65. A developer is debugging the following code to determine why Accounts are not being created.

```
Account a new Account (Name = 'A');
```

```
Database.insert (a, false);
```

How should the code be altered to help debug the issue?

A. Add a try/catch around the insert method.

B. Collect the insert method return value in a SaveResult record.

C. Set the second insert method parameter to TRUE.

D. Add a System.debug() statement before the insert method.

62 of 65. A third-party vendor created an unmanaged Lightning web component. The Salesforce Administrator wishes to expose the component only on Record Page Layouts.

Which two actions should the developer take to accomplish this business objective?

Choose 2 answers

A. Specify lightning Community\_Page as a target in the XML file.

B. Specify lightning Community Page Layout as a target in the XML file.

C. Ensure istxposed is set to true on the XML file.

D. Specify lightning RecordPage as a target in the XML file.

63 of 65. A developer creates a Lightning web component that imports a method within an Apex class. When a Validate button is pressed, the method runs to execute complex validations.

In this implementation scenario, which artifact is part of the Controller according to the MVC architecture?

- A. Apex class
- B. JavaScript file
- C. HTML file
- D. XML file

64 of 65. Which annotation exposes an Apex class as a RESTful web service?

- A. @RemoteAction
- B. @HttpInvocable
- C. @RestResource.
- D. @AuraEnabled

65. AW computing tracks order information in custom objects called order\_c and order\_lines\_c. Currently , all shipping information is stored in the order\_c object.

The company wants to expand its order application to support split shipments so that any number of order\_lines\_c records on single order\_c can be shipped to different locations.

**Order\_shipment\_Group\_c object and Master Details field on order\_lines\_c**

Q.An org has two custom objects

Plan\_c that has a master-detail Relationship to the Account Object

Plan\_item\_c has a master-detail Relationship to the Plan\_c object

What should a developer use to create a Visualforce section on the Account page Layout that Displays Account and all of the Plan\_item\_c records related to those Plan\_c records.

A standard controller with a controller extension

# **Platform Developer-I WI**

**22**

## **Very important for WI22 exam**

Que 1. What are two ways that a controller extension can be specified on a visualforce page?

Choose 2 answers

**Apex:page standardController="Account" extensions="myControllerExtension"**

**Apex:page controller="Account" extensions ="myControllerExtension"**

Que 2. A developer wants to import 500 Opportunity records into a sandbox.

Why should the developer choose to use Data Loader instead of Data Loader Wizard?

**Data Import Wizard does not support Opportunities.**

Que 3. What is a benefit of developing applications in a multi-tenant environment?

**Default out-of-the-box configuration.**

Que 4. Which three Salesforce resources can be accessed from a Lightning web component?

Choose 3 answers

**Content asset files**

**SVG resources**

**Static resources**

Que 5 Universal Containers has an order system that uses an order Number to Identify an order for customers and service agents. Order records will be imported into Salesforce.

How should the Order Number field be defined in Salesforce?

### **Number With External ID**

Que 6. Given the following Anonymous Block:

```
List<Case> casesToUpdate = new List<Case>();  
  
For(Case thiscase : [Select Id, Status From Case LIMIT 50000]) {  
  
    thiscase.Status = 'Working';  
  
    casesToUpdate.add(thiscase);  
  
}  
  
Try{  
  
    Database.update(casesToUpdate, false);  
  
} catch(Exception e){  
  
    System.debug(e.getMessage());  
  
}
```

What should a developer consider for an environment that has over 10,000 Case records?

**The transaction will succeed and changes will be committed.**

Que 7. A developer has a Visualforce page and custom controller to save Account records. The developer wants to display any validation rule violations to the user.

How can the developer make sure that validation rule violations are displayed?

**Include <apex:messages> on the Visualforce page.**

Que 8. Which two are phases in the Salesforce Application Event propagation framework?

Choose 2 answers

**Bubble**

**Default**

Que 9. Which two are best practices when it comes to Aura component and application event handling?

Choose 2 answers

**Reuse the event logic in a component bundle, by putting the logic in the helper.**

**Handle low-level events in the event handler and re-fire them as higher-level events.**

Que 10. What is the result of the following code?

```
Account a = new Account();
```

```
Database.insert(a, false);
```

**The record will not be created and an exception will be thrown.**

Que 11. Universal Containers stores Orders and Line Items in Salesforce. For security reasons, financial representatives are allowed to see information on the Order such as order amount, but they are not allowed to see the Line Items on the Order.

Which type of relationship should be used?

## **Lookup**

Que 12. A team of developers is working on a source-driven project that allows them to work independently, with many different org configurations.

Which type of Salesforce orgs should they use for their development?

## **Scratch orgs**

Que 13. When using SalesforceDX, what does a developer need to enable to create and manage scratch orgs?

## **Dev Hub**

Que 14. An org tracks customers orders on an Order object and the line items of an Order on the Line Item object. The Line Item object has a Master/Detail relationship to the Order object. A developer has a requirement to calculate the order amount on an Order and the line amount on each Line Item based on quantity and price.

What is the correct implementation?

**Implement the line amount as a currency field and the order amount as a SUM formula field.**

Que 15. Flow Builder uses an Apex Action to provide additional information about multiple Contacts, stored in a custom class, ContactInfo.

Which is the correct definition of the Apex method that gets the additional information?

**@InvocableMethod(label='Additional Info')**

**Public static List<ContactInfo> getInfo(List<Id> contactIds)**

( /\*implementation\*/)

Que 16. The Job\_Application\_c custom object has a field that is a Master-Detail relationship to the Contact object, where the contact object is the Master. As part of a implementation, a developer needs to retrieve a list containing all Contact records where the related Account Industry is ‘Technology’ while also retrieving the contact’s Job\_Application\_c records.

Based on the object’s relationships, what is the most efficient statement to retrieve the list of contacts?

**[SELECT Id, (SELECT Id FROM Job\_Applications\_\_r) FROM Contact WHERE Account.Industry = ‘Technology’];**

Que 17. The Sales management team at Universal Containers requires that the Lead Source field of the Lead record be populated when a Lead is converted.

What should be used to ensure that a user populates the Lead Source field prior to converting a Lead?

### **Validation Rule**

Que 18. What is the result of the following code snippet?

```
Public void dowork(Account acct){  
    For(Integer i=0;i<=200; i++){  
        Insert acct;  
    }  
}
```

**0 Accounts are inserted.**

Que 19. How does the Lightning Component framework help developers implement solutions faster?

**By providing device-awareness for mobile and desktops.**

Que 20. An Apex method, getAccounts, that returns a List of Accounts given a searchTerm, is available for Lightning Web components to use.

What is the correct definitions of a Lightning Web Component property that uses the getAccounts method?

```
@wire{ getAccounts, (searchTerm: '$searchTerm') }
```

```
accountList;
```

Que 21. What will be the output in the debug log in the event of a QueryException during a call to the Query method in the following example?

```
class myClass {
    class CustomException extends QueryException {}
    public static Account aQuery() {
        Account theAccount;
        try {
            system.debug('Querying Accounts.');
            theAccount = [SELECT Id FROM Account WHERE CreatedDate > TODAY];
        }
        catch (CustomException eX) {
            system.debug('Custom Exception.');
        }
        catch (QueryException eX) {
            system.debug('Query Exception.');
        }
        finally {
            system.debug('Done.');
        }
        return theAccount;
    }
}
```

### **Querying Accounts, Query Exception, Done.**

Que 22. While writing an Apex class that creates Accounts, a developer wants to make sure that all required fields are handled properly.

Which approach should the developer use to be sure that the Apex class works correctly?

### **Include a try/catch block to the Apex class.**

Que 23. Which action causes a before trigger to fire by default for Accounts?

### **Converting Leads to Person accounts or Contact accounts.**

Que 24. Universal Containers wants Opportunities to be locked from editing when reaching the Closed/Won stage.

Which two strategies should a developer use to accomplish this?

Choose 2 answers

**Use a validation rule.**

**Use a trigger.**

Que 25. A developer creates a new Apex trigger with a helper class, and writes a test class that only exercises 95% coverage of the new Apex helper class.

Change Set deployment to production fails with the test coverage warning:

“Test Coverage of selected Apex Trigger is 0%, at least 1% test coverage is required.”

What should the developer do to successfully deploy the new Apex trigger and helper class?

**Create a test class and methods to cover the Apex trigger.**

Que 26. Given the following trigger implementation:

```
trigger leadTrigger on Lead (before update){  
    final ID BUSINESS_RECORDTYPEID = '012500000009Qad';  
  
    for(Lead thisLead : Trigger.new){  
        if(thisLead.Company != null && thisLead.RecordTypeId != BUSINESS_RECORDTYPEID){  
            thisLead.RecordTypeId = BUSINESS_RECORDTYPEID;  
        }  
    }  
}
```

The developer receives deployment errors every time a deployment is attempted from Sandbox to Production.

What should the developer do to ensure a successfull deployment?

**Ensure BUSINESS\_RECORDTYPEID is pushed as part of the deployment components.**

Que 27. Which scenario is valid for execution by unit tests?

**Set the created date of a record using a system method.**

Que 28. Which three statements are true regarding custom exceptions in Apex?

Choose 3 answers

**A custom exception class can implement one or many interfaces.**

**A custom exception class can extend other classes besides the Exception class.**

**A custom exception class must extend the system Exception class.**

Que 29. Universal Containers has a large number of custom applications that were built using a third-party JavaScript framework and exposed using Visualforce pages. The company wants to update these applications to apply styling that resembles the look and feel of Lightning Experience.

What should the developer do to fulfil the business request in the quickest and most effective manner?

**Incorporate the Salesforce Lightning Design System CSS stylesheet into the JavaScript applications.**

Que 30. Universal Containers recently transitioned from Classic to Lightning Experience. One of its business processes requires certain values from the Opportunity object to be sent via an HTTP REST callout to its external order management systems based on a user-initiated actions on the Opportunity detail page. Example values are as follows:

- Name
- Amount
- Account

Which two methods should the developer implement to fulfil the business requirement?

Choose 2 answers

**Create a Lightning component that performs the HTTP REST callout, and use a Lightning Action to expose the component on the Opportunity detail page.**

**Create a Visualforce page that performs the HTTP REST callout, and use a Visualforce quick action to expose the component on the Opportunity detail page.<apex**

Que 31. Which code in a Visualforce page and/or controller might present a security vulnerability?

**<apex:outputText escape="false" value="{\$CurrentPage.parameters.userInput}" />**

Que 32. For which three items can a trace flag be configured?

Choose 3 answers

**User**

**Apex Trigger**

**Apex Class**

Que 33. A developer at Universal Containers is tasked with implementing a new Salesforce application that will be maintained completely by their company's Salesforce administrator.

Which three options should be considered for building out the business logic layer of the application?

Choose 3 answers

## Validation Rules

### Process Builder

### Flow Builder

Que 34. A developer wants to get access to the standard price book in the org while writing a test class that covers an OpportunityLineItem trigger.

**Which method allows access to the price book?**

**Use Test.getStandardPricebookId() to get the standard price book ID.**

Que 35. A developer is tasked to perform a security review of the ContactSearch Apex class that exists in the system. Within the class, the developer identifies the following method as a security threat.

```
List<Contact> performSearch(String lastName){  
    return Database.query('SELECT Id, FirstName, LastName FROM Contact WHERE LastName Like  
    %'+lastName+'%');  
}
```

**What are two ways the developer can update the method to prevent a SOQL injection attack?**

Choose 2 answers

- A  Use the @ReadOnly annotation and the with sharing keyword on the class.
- B  Use a regular expression expression on the parameter to remove special characters.
- C  Use variable binding and replace the dynamic query with a static SOQL.
- D  Use the escapeSingleQuotes method to sanitize the parameter before its use.

**C D**

Que 36. A development team wants to use a deployment script to automatically deploy to a sandbox during their development cycles.

Which two tools can they use to run a script that deploys to a sandbox?

**Ant Migration Tool**

**SFDX CLI**

Que 37. A developer is implementing an Apex class for a financial system. Within the class, the variables ‘creditAmount’ and ‘debitAmount’ should not be able to change once a value is assigned.

In which two ways can the developer declare the variable to ensure their value can only be assigned one time?

**Use the static keyword and assign its value in the class constructor.**

**Use the final keyword and assign its value when declaring the variable.**

Que 38. A developer wants to mark each Account in a List<Account> as either Active or Inactive based on the LastModifiedDate field value being more than 90 days.

Which Apex techniques should the developer use?

**A for loop, with an if/else statement inside.**

Que 39. Universal container decided it will not send emails to support personnel directly for salesforce in the event that an unhandled exceptions occurs. Instead UC wants an external system to be notified of the error.

What is the appropriate publish/subscribe logic to meet these requirements?

**Ans: Publish the error event using the Eventbus.publish() method and have the external system subscribe to the using CometD.**

Que 40. Which Salesforce org has a complete duplicate copy of the production org including data and configuration?

**Full Sandbox**

Que 41. How can a developer check the test coverage of active process Builders and Flows before deploying them in a Change Set?

**Use SOQL and the Tooling API.**

Que 42. Refer to the following code snippet for an environment has more than 200 Accounts belonging to the Technology industry :

```
For(Account thisAccount : [Select Id, Industry FROM Account Limit 150]) {  
    If(thisAccount.Industry == 'Techonogy') {  
        thisAccount.Is_Tech_c = true;  
    }  
    Update thisAccount;  
}
```

When the code executes, which two events occur as a result of the Apex transaction?

Choose 2 answers

**The Apex transaction succeeds regardless of any uncaught exception and all processed accounts are updated.**

**The Apex transaction fails with the following message: “SObject row was retrieved via SOQL without querying the requested field: Account.Is\_Tech\_c”.**

Que 43. A developer is creating a page that allows users to create multiple opportunities. The developer is asked to verify the current user's default opportunity record type and set certain default values based on the record type before inserting the record.

**Use Opportunity.SObjectType.getDescribe().getRecordTypeInfos() to get a list of record types and iterate through them until isDefaultRecordTypeMapping() is true.**

Que 44. Which code should be used to update an existing visualforce page that uses standard visualforce component so that the page matches the look and feel of lightning experience?

`<Apex: page lightningStylesheets='true'>`

Que 45. Which three data types can a SOQL query return?

Choose 3 answers

**List**

**sObject**

**Integer**

Que 46. A developer writes a trigger on the account object on the before update event that increments count field. A workflow rule also increments that count field every time an Account is created or updated. The field update in the workflow rule is configured to not to re-evaluate workflow rule.

What is the value of the count field if an Account is inserted with an initial value of zero, assuming no other automation logic is implemented on the Account?

**Ans: 2**

Que 47. A developer wants to invoke an outbound message when a record meets a specific criteria.

**Which three features satisfy this use case?**

Choose 3 answers

- A  Process builder can be used to check the record criteria and send an outbound message without Apex Code.
- B  Workflows can be used to check the record criteria and send an outbound message.
- C  Approval Process has the capability to check the record criteria and send an outbound message without Apex Code.
- D  Visual Workflow can be used to check the record criteria and send an outbound message without Apex Code.
- E  Process builder can be used to check the record criteria and send an outbound message with Apex Code.

**B C E**

Que 48. Which two statements accurately represent the MVC framework implementation in salesforce?

**Triggers used to create records represent the Model (M) part of the MVC framework.**

**Validation rules enforce business rules and represent the Controller (C) part of the MVC framework.**

Que 49. A developer must create a ShippingCalculator class that cannot be instantiated and must include a working default implementation of a calculate method, that sub-classes can override.

What is the correct implementation of the ShippingCalculator class?

**Public abstract class ShippingCalculator{**

**Public virtual void calculate() {/\*implementation\*/}}**

**}**

Que 50. Assuming that ‘Name’ is a string obtained by an <apex : inputText> tag on a visualforce page which Two SOQL queries performed are safe from SOQL injection.

- C  Database.query(query);  
String query = 'SELECT Id FROM Account WHERE Name LIKE \'' + String.escapeSingleQuotes(name) + '\'\'; List<Account> results = Database.query(query);
- D  String query = '%' + name + '%';  
List<Account> results = [SELECT Id FROM Account WHERE Name LIKE :query];

Mark this item for later review.

**CD**

Que 51. Which process automation should be used to send an outbound message without using Apex code?

**Workflow Rule**

Que 52. What are two ways for a developer to execute tests in an org?

**Developer Console**

**Tooling API**

Que 53. Universal container wants a list button to display a visualforce page that allows users to edit multiple records which visualforce feature supports this requirement.

**Ans: Recordsetvar page attribute**

Que 54. Which three web technologies can be integrated into a visualforce page?

**CSS**

**JavaScript**

**HTML**

Que 55. A developer must modify the following code snippet to prevent the number of SOQL queries issued from exceeding the platform governor limit.

**18. A developer must modify the following code snippet to prevent the number of SOQL queries issued from exceeding the platform governor limit.**

```
public class without sharing OpportunityService{  
    public static List<OpportunityLineItem> getOpportunityProducts(Set<Id> opportunityIds){  
        List<OpportunityLineItem> oppLineItems = new List<OpportunityLineItem>();  
        for(Id thisOppId : opportunityIds){  
            oppLineItems.addAll([Select Id FROM OpportunityLineItem WHERE OpportunityId = :thisOppId]);  
        }  
        return oppLineItems;  
    }  
}
```

The above method might be called during a trigger execution via a Lightning component.

Which technique should be implemented to avoid reaching the governor limit?

- A  Use the System.Limits.getLimitQueries() method to ensure the number of queries is less than 100.
- B  Refactor the code above to perform the SOQL query only if the Set of opportunityIds contains less 100 Ids.
- C  Refactor the code above to perform only one SOQL query, filtering by the Set of opportunityIds.
- D  Use the System.Limits.getQueries() method to ensure the number of queries is less than 100

C

Que 56. A developer needs to create a custom interface in Apex:

Which three considerations must developer keep in mind while developing the apex interface.

Ans:

Choose 3 answers

- A  The Apex class access modifier can be set to Private, Public, or Global.
- B  A method implementation can be defined within the Apex Interface.
- C  New methods can be added to a public interface within a released package.
- D  A method defined in an Apex interface cannot have an access modifier.
- E  The Apex class must be declared using the interface keyword.

A D E

ADE

Que 57. The following Apex method is part of the contactService class that is called from a trigger:

**40. The following Apex method is part of the ContactService class that is called from a trigger:**

```
public static void setBusinessUnitToEMEA(Contact thisContact){  
    thisContact.Business_Unit__c = 'EMEA';  
    update thisContact;  
}
```

**How should the developer modify the code to ensure best practices are met?**

- A  public static void setBusinessUnitToEMEA(List<Contact> contacts){  
 for(Contact thisContact : contacts){  
 thisContact.Business\_Unit\_\_c = 'EMEA';  
 }  
 update contacts;  
}
- B  public static void setBusinessUnitToEMEA(List<Contact> contacts){  
 for(Contact thisContact : contacts){  
 thisContact.Business\_Unit\_\_c = 'EMEA';  
 update contacts[0];  
 }  
}
- C  public void setBusinessUnitToEMEA(List<Contact> contacts){  
 contacts[0].Business\_Unit\_\_c = 'EMEA';  
 update contacts[0];  
}
- D  public static void setBusinessUnitToEMEA(Contact thisContact){  
 List<Contact> contacts = new List<Contact>();  
 contacts.add(thisContact.Business\_Unit\_\_c = 'EMEA');  
 update contacts;

Ans : A

Que 58. A SSN\_c custom field exists on the candidate\_c custom object. The field is used to store each candidate's social security number and is marked as unique in the schema definition.

**49. A SSN\_c custom field exists on the Candidate\_c custom object. The field is used to store each candidate's social security number and is marked as Unique in the schema definition.**

As part of a data enrichment process, Universal Containers has a CSV file that contains updated data for all candidates in the system. The file contains each Candidate's social security number as a data point. Universal Containers wants to upload this information into Salesforce, while ensuring all data rows are correctly mapped to a candidate in the system.

**Which technique should the developer implement to streamline the data upload?**

- A  Upload the CSV into a custom object related to Candidate\_c.
- B  Create a Process Builder on the Candidate\_c object to map the records.
- C  Create a before insert trigger to correctly map the records.
- D  Update the SSN\_c field definition to mark it as an External Id.

Ans : D

Que 59. Which Salesforce feature allows a developer to see when a user last logged in to Salesforce if real-time notification is not required?

### **Event Monitoring Log**

Que 60. What is a fundamental difference between a master detail relationship and a lookup relationship.

**Ans: A Master detail relationship detail record inherits the sharing and security of its master record.**

Que 61. A developer writes a single trigger on the Account object on the after insert and after updates events. A workflow rule modifies a field every time an Account is created or updated.

**Ans : 2**

Que 62. A developer must implement a checkpaymentprocessor class that provides check processing payment capabilities that adhere to what is defines for payments in the payment Processor Interface.

**Public interface PaymentProcessor {**

**Valid pay(Dacimal amount);**

**}**

**Public class CheckPaymentProcessor implements PaymentProcessor {**

**Public void pay (Decimal amount) {}**

**}**

Que 63. An org has an existing Visual Flow that creates an Opportunity with an Update Records element. A developer must update the Visual Flow to also create a Contact and store the created Contacts's ID on the Opportunity.

Which update should the developer make in the Visual Flow?

**Add a new Create Records element.**

Que 64. A developer must create a Lightning component that allows users to input Contact record information to create a Contact record, including a salary\_c custom field.

1. A developer must create a Lightning component that allows users to input Contact record information to create a Contact record, including a salary\_c custom field.

What should the developer use, along with a lightning-record-edit-form, so that salary\_c field functions as a currency input and is only viewable and editable by users that have the correct field level permissions on salary\_c?

A  <lightning-input-currency value="Salary\_c">  
B  <lightning-input-field field-name="Salary\_c">  
C  <lightning-input type="number" value="Salary\_c" formatter="currency">  
D  <lightning-formatted-number value="Salary\_c" format-style="currency">

**Ans : C**

Que 65. A developer wrote Apex code that calls out to an external systems.

How should a developer write the test to provide test coverage?

**Write a class that implements the HTTPCalloutMock Interface.**

Que 66. Which two statements are true about using the @testSetup annotation in an Apex test class?

**The @testSetup annotation cannot be used when the @isTest(SeeAllData=True) annotation is used.**

**The @testSetup method is automatically executed before each test method in the test class is executed. Or**

**A method defined with the @testSetup annotation executes once for each test method in the test class and counts towards system limits.**

Que 67. Which three code lines are required to create a Lightning component on a Visualforce page?

Choose 3 answers

**<apex:includeLightning/>**

**\$Lightning.use**

**\$Lightning.createComponent**

Que 68. What is the maximum number of SOQL queries used by the following code?

```
List<Account> aList =[ SELECT Id FROM Account LIMIT 5];
```

```
For(Account a : aList){
```

```
    List<Contact> cList = [Select id from contact where AccountId =:a.ID];
```

```
}
```

**Ans : 6**

Que 69. Which statement generates a list of Leads and Contacts that have a field with the phrase ‘ACME’?

```
List<List <sObject>> searchList = (FIND "*ACME*" IN ALL FIELDS RETURNING Contact, Lead);
```

Que 70. A developer created a visualforce page and custom controller to display the account type field as shown below.

Custom Controller Code:

```
public with sharing class customCtrlr{  
    private Account theAccount;  
    public String actType;  
    public customCtrlr(){  
        theAccount = (SELECT Id, Type FROM Account WHERE Id  
        =:ApexPages.currentPage().getParameters().get('id'));  
        actType = theAccount.Type;  
    }  
}
```

**Visualforce page snippet:**

The Account Type is {!actType}

The value of the account type field is not being displayed correctly on thepage. Assuming the custom controller is properly referenced on the Visualforcepage, what should the developer do to correct the problem?

**Add a getter method for the actType attribute.**

Que 71. A developer identifies the following triggers on the Expense\_c object:

```
deleteExpense,  
applyDefaultsToExpense,  
validateExpenseUpdate;
```

The triggers process before delete, before insert, and before update events respectively.

Which two techniques should the developer implement to ensure trigger best practices are followed?

Choose 2 answers

**Unify all three triggers in a single trigger on the Expense\_c object that includes all events.**

## Create helper classes to execute the appropriate logic when a record is saved.

Que 72. Given the following code snippet, that is part of a custom controller for a Visualforce page:

```
38. Given the following code snippet, that is part of a custom controller for a Visualforce page:  
public void updateContact(Contact thisContact){  
    thisContact.IsActive_c = false;  
    try{  
        update thisContact;  
    }catch(exception e){  
        String errorMessage = 'An error occurred while updating the Contact. '+e.getMessage();  
        ApexPages.addMessage(new ApexPages.message(ApexPages.severity.FATAL,errorMessage));  
    }  
}
```

In which two ways can the try/catch be enclosed to enforce object-level permissions and prevent the DML statement from being executed if the current logged-in user does not have the appropriate level of access to the object?

Choose 2 answers

- A  Use if(thisContact.OwnerId == UserInfo.getUserId())
- B  Use if(Schema.sObjectType.Contact.fields.IsActive\_c.isUpdateable())
- C  Use if(Schema.sObjectType.Contact.isUpdatable())
- D  Use if(Schema.sObjectType.Contact.isUpdatable())

Ans :

**Use if (Schema. sObjectType.Contact.fields.IsActive\_c.isUpdateable())**

**Use if(Schema.sObjectType.Contact.isUpdatable())**

Que 73. A developer writes a single trigger on the Account object on the after insert and after update events. A workflow rule modifies a field every time an Account is created or updated.

How many times will the trigger fire if a new Account is inserted, assuming other automation logic is implemented on the Account?

**Ans : 2**

Que 74. How many Accounts will be inserted by the following block of code?

```
for(Integer i=0; i<500; i++){
```

```
    Account a = new Account(Name ='New Account '+ i);
```

```
    Insert a;
```

}

**Ans : 0**

Que 75. How does the Lightning Component framework help developer implements solutions faster?

**Ans : By providing device-awareness for mobile and desktops.**

Que 76. In terms of the MVC paradigm, what are two advantages of implementing the view layer of a Salesforce application using Lightning Web Component-based development over visualforce?

Choose 2 answers

**Self-contained and reusable units of an application**

**Rich component ecosystem**

Que 77. When importing and exporting data into Salesforce, which two statements are true?

Choose 2 answers

**Ans: Developer and Developer Pro sandboxes have different storage limits.**

**Bulk API can be used to import large data volumes in development environments without bypassing the storage limits.**

Que 78. When a user edits the Postal Code on an Account, a custom Account text field named “Timezone” must be updated based on the values in a postalCodeToTimezone\_c custom object.

How should a developer implement this feature?

**Build an Account custom Trigger.**

Que 79. Universal Containers stores the availability date on each Line Item of an Order and Orders are only shipped when all of the Line Items are available.

Which method should be used to calculate the estimated ship date for an Order?

**Use a Max Roll-Up Summary field on the latest availability date fields.**

Que 80. The values "High", "Medium", and "Low" are identified as common values for multiple picklists across different objects.

What is an approach a developer can take to streamline maintenance of the picklists and their values, while also restricting the values to the ones mentioned above?

**Create the picklist on each object and use a Global Picklist Value Set containing the values.**

Que 81. A developer needs to have records with specific field values in order to test a new Apex class.

What should the developer do to ensure the data is available to the test?

**Use Test.loadData() and reference a static resource.**

Que 82. A developer is debugging the following code to determine why accounts are not being created.

```
Account a =new account(name= 'a');  
database.insert(a,false);
```

How should the code be altered to help debug the issue?

**Add a try/catch around the insert method**

Que 83. A developer needs to confirm that a Contact trigger works correctly without changing the organization's data. What should the developer do to test the Contact trigger?

**Use the Test menu on the Developer Console to run all test classes for the Contact trigger.**

Que 84. What are three considerations when using the @InvocableMethod annotation in Apex?

Choose 3 answers

- 1. A method using the @InvocableMethod annotation can be declared as Public or Global.**
- 2. Only one method using the @InvocableMethod annotation can be defined per Apex class.**
- 3. A method using the @InvocableMethod annotation must be declared as static.**

Que 85. A developer has an Apex controller for a Visualforce page that takes an ID as a URL parameter. How should the developer prevent a cross site scripting vulnerability?

`String.escapeSingleQuotes(ApexPages.currentPage().getParameters().get('url_param'))`

Que 86. A developer uses a loop to check each Contact in a list. When a Contact with the Title of "Boss" is found, the Apex method should jump to the first line of code outside of the for loop.

Which Apex solution will let the developer implement this requirement?

**Ans : break;**

Que 87. Which two events need to happen when deploying to a production org?

Choose 2 answers

- 1. All triggers must have at least 1% test coverage.**
- 2. All Apex code must have at least 75% test coverage.**

Que 88. What is a capability of the <ltng:require> tag that is used for loading external Javascript libraries in Lightning Component?

Choose 3 answers

**One-time loading for duplicate scripts.**

**Specifying loading order.**

**Loading scripts in parallel.**

Que 89. What are three characteristics of change set deployments?

**They require a deployment connection.**

**They can be used only between related organizations.**

**They can be used to transfer records.**

Que 90. A developer has two custom controller extensions where each has a save() method.

Which save() method will be called for the following Visualforce page?

```
<apex:page standardController =”Account”, extensions=”ExtensionA, ExtensionB”>  
    <apex:commandButton action =”{!save}” value=”Save”/>  
</apex:page>
```

**A. Runtime error will be generated**

**B. Standard controller save()**

**C. ExtensionB save()**

**D. ExtensionA save()**

Que 91. A developer has a single custom controller class that works with a Visualforce Wizard to support creating and editing multiple sObjects.

The wizard accepts data from user inputs across multiple Visualforce pages and from a parameter on the initial URL

Which statement is unnecessary inside the unit test for the custom controller?

```
ApexPage.currentPage().getParameters().put('Input','TestValue');
```

```
String nextPage = controller.save().getUrl();
```

```
Test.setCurrentPage(pageRef),
```

Que 92. A developer created this Apex trigger that calls MyClass.myStaticMethod:

```
trigger myTrigger on Contact(before insert)
```

```
{ MyClass.myStaticMethod(trigger.new, trigger.oldMap); }
```

The developer creates a test class with a test method that calls MyClass.myStaticMethod, resulting in 81% overall code coverage.

What happens when the developer tries to deploy the trigger and two classes to production, assuming no other code exists?

**Ans: The deployment fails because the Avex trigger has no code coverage.**

Que 93. Which two statements are valid regarding Apex classes and interfaces?

Choose 2 answers

**A class can only have one inner class level.**

**Inner classes are private by default.**

Que 94. Which two statements are true about Getter and Setter methods?

Choose 2 answers

**Setter methods are required to pass a value from a page to a controller.**

**Getter methods can pass a value from a controller to a page.**

Que 95. Which three statements are accurate about debug logs?

Choose 3 answers

**A. To View Debug Logs, “Manager users” or “View All Data” permission is needed.**

**B. Amount of information logged in the debug log can be controlled by the log levels.**

**C. Debug Log levels are cumulative, where FINE log level includes all events logged at the DEBUG, INFO, WARN, and ERROR levels.**

**D. To view Debug Logs, “Manager Users” or Modify All Data” permission is needed.**

**E. Amount of information logged in the debug log can be controlled programmatically.**

Que 96. An Approval Process is defined in the Expense\_Item\_c object. A business rule dictates that whenever a user changes the Status to ‘Submitted’ on an Expense\_Report\_c record, all the Expense\_Item\_c records related to the expense report must enter the approval process individually.

Which approach should be used to ensure the business requirement is met?

**Create a Process Builder on Expense\_Report\_c with a ‘Submit for Approval’ action type to submit all related Expense\_Item\_c records when the criteria is met.**

Que 97. How should a developer write unit tests for a private method in an Apex class ?

**Use the TestVisible annotation.**

Que 98. A developer must create an Apex class, ContactController, that a Lightning component can use to search for Contact records. Users of the Lightning component should only be able to search for Contact records to which they have access.

Which two will restrict the records correctly?

Choose 2 answers

**Public inherited sharing class ContactController**

**Public with sharing class ContactController**

Que 99. What is an example of a polymorphic lookup field in Salesforce?

**The WhatId field on the Standard Event object.**

Que 100. A developer wants to retrieve the Contacts and Users with the email address ‘[dev@uc.com](mailto:dev@uc.com)’.

Which SOSL statement should the developer use?

**FIND ([dev@uc.com](mailto:dev@uc.com)) IN Email Fields RETURNING Contact (Email), User(Email)**

Que 101. A custom picklist field, Food\_Preference\_c, exists on a custom object. The picklist contains the following options: ‘Vegan’, ‘Kosher’, ‘No Preference’. The developer must ensure a value is populated every time a record is created or updated.

What is the most efficient way to ensure a value is selected every time a record is saved?

**Mark the field as Required on the field definition.**

Que 102. A developer has an integer variable called maxAttempts. The developer needs to ensure that once maxAttempts is initialized, it preserves its value for the length of the Apex transaction; while being able to share the variable's state between trigger executions.

How should the developer declare maxAttempts to meet these requirements?

**Declare maxAttempts as a constant using the static and final keywords.**

Que 103. Which two operations can be performed using a formula field?

Choose 2 answers

**Displaying an Image based on the Opportunity Amount.**

**Calculating a score on a Lead based on the information from another field.**

Que 104. A developer needs to prevent the creation of Request\_c records when certain conditions exist in the system. A RequestLogic class exists that checks the conditions.

What is the correct implementation?

```
trigger RequestTrigger on Request_c (before insert){  
    RequestLogic.validateRecords (trigger.new);  
}
```

Que 105. Application Events follow the traditional publish-subscribe model.

Which method is used to fire an event?

**Fire()**

Que 106. Which statement describes the execution order when triggers are associated to the same object and event?

**Trigger execution order cannot be guaranteed.**

\*\*\* Que 107. A Licensed\_Professional\_c custom object exists in the system with two Master-Detail fields for the following objects : Certification\_c and Contact.

Users with the “Certification Representative” role can access the Certification records they own and view the related Licensed Professionals records, however users with the “Sales Representative” role report they cannot view any Licensed Professional records even though they own the associated contact record.

What are two likely causes of users in the “Sales Representative” role not being able to access the Licensed Professional records?

**The organization has a private sharing model for Certification\_c, and Contact is the primary relationship in the Licensed\_Professional\_c object.**

**The organization has a private sharing model for Certification\_c, and Certification\_c is the primary relationship in the Licensed\_Professional\_c object.**

Que 108. A developer needs to implement the functionality for a service agent to gather multiple pieces of information from a customer in order to send a replacement credit card.

Which automation tool meets these requirements?

**Flow Builder**

\*\*\* Que 109. Cloud Kicks Fitness, an ISV Salesforce partner, is developing a managed package application. One of the application modules allows the user to calculate body fat using the Apex class, BodyFat, and its method, calculateBodyFat(). The product owner wants to ensure this method is accessible by the consumer of the application when developing customizations outside the ISV’s package namespace.

Which approach should a developer take to ensure calculateBodyFat() is accessible outside the package namespace?

**Declare the class and method using the global access modifier.**

Que 110. What should be used to create scratch orgs?

**Salesforce CLI**

Que 111. A developer must troubleshoot to pinpoint the causes of performance issues when a custom page loads in their org.

Which tool should the developer use to troubleshoot?

**Developer Console**

Que 112. A development team wants to use a deployment script to automatically deploy to a sandbox during their development cycles.

Which two tools can they use to run a script that deploys to a sandbox?

**VS Code / SFDX CLI**

**Ant Migration tool**

\*\*\* Que 113. When a user edits the Postal Code on an Account, a custom Account text field named “Timezone” must be updated based on the values in a PostalCodeToTimezone\_c custom object.

How can a developer implement this feature?

- A. Build an Account Assignment Rule.
- B. Build a Workflow Rule.**
- C. Build an Account Approval Process.
- D. Build a Flow with Flow Builder.

Q 114. Universal Containers wants to back up all of the data and attachments in its Salesforce org once a month.

Which approach should a developer use to meet this requirement?

**Define a Data Export scheduled job.**

Q 115. Which exception type cannot be caught?

## **LimitException**

Que 116. Which Apex class contains methods to return the amount of resources that have been used for a particular governor, such as the number of DML Statements?

## **Limits**

Que 117. How should a custom user interface be provided when a user edits an Account in Lightning Experience?

**Override the Account's Edit button with a Lightning component.**

Que 118. A Lightning component has a wired property, searchResults, that stores a list of Opportunities.

Which definition of the Apex method, to which the searchResults property is wired, should be used?

**@AuraEnabled (Cacheable=true)**

**Public static List<Opportunity> search (String term) { /\*implementation\*/ }**

\*\*\* Que 118. Refer to the following code that runs in an Execute Anonymous block:

```
For(List<Lead> theseLeads : [Select LastName, Company, Email From Lead LIMIT 20000]) {  
    For(Lead thisLead : theseLeads){  
        If(thisLead.Email == null)  
            thisLead.Email = assignGenericEmail(thisLead.LastName, thisLead.company);  
    }  
    Database.update(theseLeads, false);  
}
```

If an environment where the full result set is returned, What is a possible outcome of this code?

**The total number of DML statements issued will be exceeded.**

Que 119. Which aspect of Apex Programming is limited due to multitenancy?

**The number of records returned from database queries.**

Que 120. Universal Containers implemented a private sharing model for the Account object. A custom Account search tool was developed with Apex to help sales representatives find accounts that match multiple criteria they specify. Since its release, users of the tool report they can see Accounts they do not own.

What should the developer use to enforce sharing permissions for the currently logged-in user while using the custom search tool?

**Use the schema describe calls to determine if the logged-in user has access to the Account object.**

Que 121. A developer must provide custom user interfaces when users edit a contact in either Salesforce Classic or Lightning Experience.

What should the developer use to override the Contact's Edit button and provide this functionality?

**A Visualforce page in Salesforce Classic and a Lightning component in Lightning Experience.**

Que 122. A workflow updates the value of a custom field for an existing Account.

How can a developer access the updated custom field value from a trigger?

**By writing a Before Update trigger and accessing the field value from Trigger.new**

Que 123. A developer needs to create a custom button for the Account object that, when clicked, will perform a series of calculation and redirect the user to a custom Visualforce page.

Which three attributes need to be defined with values in the <apex:page> tag to accomplish this?

Choose 3 answers

**standardController**

**action**

**renderAs**

Que 124. A developer must write an Apex method that will be called from a Lightning component. The method may delete an Account stored in the accountRec variable. Which method should a developer use to ensure only users that should be able to delete Accounts can successfully perform deletions?

**Schema.sObjectType.Account.isDeletable()**

Que 125. A developer considers the following snippet of code:

```
Boolean isOK;  
Integer x;  
String theString ='Hello';  
If (isOK == false && theString == 'Hello') {  
    x = 1;  
} else if (isOK == true && theString == 'Hello') {  
    x = 2;  
} else if (isOK != null && theString == 'Hello') {  
    x = 3;  
} else {  
    x = 4;  
}
```

Based on this code What is the value of x?

**Ans : 4**

Que 126. A developer has the following requirements:

- Calculate the total amount on an Order.
- Calculate the line amount for each Line Item based on quantity selected and price.
- Move Line Items to a different Order if a Line Item is not in stock.

Which relationship implementation supports these requirements?

**Line Item has a Master-Detail field to Order and the Master can be re-parented.**

Que 127. If Apex code executes inside the execute() method of an Apex class when implementing the Batchable interface, which two statement are true regarding governor limits?

Choose 2 answers

**The apex governor limits are reset for each iteration of the execute() method.**

**The Apex governor limits might be higher due to the asynchronous nature of the transaction.**

Que 128. A developer has to identify a method in an Apex class that performs resource intensive actions in memory by iterating over the result set of a SOQL statement on the account. The method also performs a DML statement to save the changes to the database.

Which two techniques should the developer implement as a best practice to ensure transaction control and avoid exceeding governor limits?

Choose 2 answers.

**Use the Database.Savepoint method to enforce database integrity.**

**Use the System.Limit class to monitor the current CPU governor limit consumption.**

Que 129. In the following example, which sharing context will myMethod execute when it is invoked?

```
Public Class myClass {  
    Public Void myMethod() { /*implementation */ }  
}
```

**Sharing rules will be inherited from the calling context.**

Que 130. Universal Containers decides to use purely declarative development to build out a new Salesforce application.

Which three options can be used to build out the business logic layer for this application?

Choose 3 answers

**Flow Builder**

**Validation Rules**

**Process builder**

Que 131. Which two characteristics are true for Aura component events?

Choose 2 answers

**Calling event.stopPropagation() may or may not stop the event propagation based on the current propagation phase.**

**The event propagates to every owner in the containment hierarchy.**

Que 132. What can be developed using the Lightning Component framework?

**Single-page web apps**

Que 133. A developer needs to join data received from an integration with an external system with parent records in Salesforce. The data set does not contain the Salesforce IDs of the parent records, but it does have a foreign key attribute that can be used to identify the parent.

Which action will allow the developer to relate records in the data model without knowing the Salesforce ID?

### **Create a custom field on the child object of type Lookup.**

Que 134. A PrimaryId\_c custom field exist on the Candidate\_c custom object. The field is used to store each candidate's id number and is marked as Unique in the schema definition.

As part of a data environment process, Universal Containers has a CSV file that contains updated data for all candidates in the system. The file contains each Candidate's primary id as a data point. Universal Containers wants to upload this information into Salesforce, while ensuring all data rows are correctly mapped to a candidate in the system.

Which technique should the developer implement to streamline the data upload?

**Update the primaryId\_\_c field definition to mark it as an External Id.**

Que 135. Universal Containers hires a developer to build a custom search page to help users finf the Accounts they want. Users will be able to search on Name, Description, and a custom comments field.

Which consideration should the developer be aware of when deciding between SOQL and SOSL?

Choose 2 answers

**SOSL is faster for text searches.**

**SOQL is able to return more records.**

Que 136. What is the value of the Trigger.old context variable in a Before Insert trigger?

**Ans : null**

Que 137. A custom object Trainer\_c has a lookup field to another custom object Gym\_c.

Which SOQL query will get the record for the Viridian City gym and all it's trainers?

**SELECT Id, (SELECT Id FROM Trainers\_r) FROM Gym\_c WHERE Name = 'Viridian City Gym'**

Que 138. Universal Containers (UC) uses a custom object called Vendor. The Vendor custom object has a Master-Detail relationship with the standard Accounts Based on some internal discussions, the

UC administrator tried to change the Master-Detail relationship to a Lookup relationship but was not able to do.

What is a possible reason that this change was not permitted?

**The Account records contain Vendor roll-up summary fields.**

Que 139. What should a developer do to check the code coverage of a class after running all tests?

**View the Class Test Coverage tab on the Apex Class record in Salesforce Setup.**

Que 140. Which Lightning Code segment should be written to declare dependencies on a Lightning component, c:accountList, that is used in a Visualforce page?

```
<aura:application access="GLOBAL" extends="ltng:outApp">
  <aura:dependency resource="c:accountList"/>
</aura:application>
```

Que 141. An org tracks customer orders on an Order object and the line items of an Order on the Line Item object. The Line Item object has a Master/Details to the Order object. A developer has a requirement to calculate the order amount on an Order and the line amount on each Line Item based on quantity.

What is the correct implementation?

**Implement the line amount as a numeric formula field and the order amount as a roll-up summary field.**

Que 142. A developer is writing tests for a class and needs to insert records to validate functionality.

Which annotation method should be used to create records for every method in the test class?

**@TestSetup**

Que 143. Which two statements accurately represent the MVC framework implementation in salesforce?

**Records created or updated by triggers represent the Model (M) part of the MVC framework.**

**Validation rules enforce business rules and represent the Controller (C) part of the MVC framework.**

Que 144. A recursive transaction is initiated by a DML statement creating records for these two objects:

- Accounts
- Contacts

The Account trigger hits a stack depth of 16.

Which statement is true regarding the outcome of the transaction?

**The transaction succeeds and all changes are committed to the database.**

Que 145. Universal Containers uses a Master-Detail relationship and stores the availability date on each Line Item of an Order and Orders are only shipped when all of the Line Items are available.

Which method should be used to calculate the estimated ship date for an Order ?

**Use a Max Roll-UP Summary field on the latest availability date fields.**

Que 146. Given the code below:

```
List<Account> aList = [Select Id From Account];  
  
For(Account a : aList){  
  
List<Contact> cList = [ Select Id From Contact Where AccountId = :a.Id];  
  
}
```

What should a developer do to correct the code so that there is no chance of hitting a governor limit?

**Add a LIMIT clause to the first Select SOQL Statement.**

Que 147. Which three resources in an Aura Component can contain Javascript functions?

Choose 3 answers

**Controller**

**Helper**

**Renderer**

Que 148. Which action may cause triggers to fire?

**Updates to Feed Items**

Que 149. Which three steps allow a custom SVG to be included a Lightning Web Component?

Choose 3 answers

**Import the static resource and provide a getter for it in JavaScript.**

**Reference the getter in the HTML template.**

**Upload the SVG as a static resource.**

Que 150. Where are two locations a developer can look to find information about the status of asynchronous or future calls?

**Apex Flex Queue**

**Apex Jobs**

Que 151. Instead of sending emails to support personnel directly from Salesforce from the finish method of a batch process, Universal Containers wants to notify an external system in the event that an unhandled exception occurs.

What is the appropriate publish/subscribe logic to meet these requirements?

**Ans: Publish the error event using the Eventbus.publish() method and have the external system subscribe to the using CometD.**

Que 152. Universal Containers wants to assess the advantages of declarative development versus customization for specific use cases in its Salesforce implementation.

What are two characteristics of declarative development over programmatic customization?

Chhose 2 answers

**Declarative development can be done using the Setup UI.**

**Declarative development does not require Apex test classes.**

Que 153. What should a developer use to obtain the Id and Name of all the Leads, Accounts, and Contacts that have the company name “Universal Containers”?

**FIND ‘Universal Containers’ IN Name Fields RETURNING lead(Id, Name), account(Id, Name), contact(Id, Name)**

Que 154. Universal Containers (UC) wants to lower its shipping cost while making the shipping process more efficient. The Distribution Officer advises UC to implement global addresses to allow multiple Accounts to share a default pickup address. The developer is tasked to create the supporting

object and relationship for this business requirement and uses the Setup Menu to create a custom object called “Global Address”.

Which field should the developer add to create the most efficient model that supports the business need?

**Add a Master-Detail field on the Global Address object to the Account object.**

Que 155. What does the Lightning Component framework provide to developers?

**Prebuilt components that can be reused.**



# Platform Developer 1 Exam Question and Answers SP20

## Exam Taken 22<sup>nd</sup> April, 2020

1. Which three steps allow a custom SVG to be included in a Lightning web component?  
Choose 3 answers

- Upload the SVG as a static resource
- Import the static resource and provide a getter for it in JavaScript
- Reference the getter in the HTML template

2. Which process automation should be used to send an outbound message without using Apex code?

- Workflow Rule

3. A developer is tasked to perform a security review of the ContactSearch Apex class that exists in the system. Within the class, the developer identifies the following method as a security threat.

```
List<Contact> performSearch(String lastname){  
    Return Database.query(SELECT Id, FirstName, LastName FROM Contact WHERE  
    LastName like %' + LastName + '%');  
}
```

What are two ways the developer can update the method to prevent a SOQL injection attack? Choose 2 answers

- Use variable binding and replace the dynamic query with a static SOQL.
- Use the escapeSingleQuotes method to sanitize the parameter before its use.

4. A developer uses a loop to check each Contact in a list. When a Contact with the Title of "Boss" is found, the Apex method should jump to the first line of code outside of the for loop.

Which Apex solution will let the developer implement this requirement?

- break;

5. The values "High", "Medium", and "Low" are identified as common values for multiple picklists across different objects.

What is an approach a developer can take to streamline maintenance of the picklists and their values, while also restricting the values to the ones mentioned above?

- Create the picklist on each object and use a Global Picklist Value Set containing the values.

6. Which aspect of Apex programming is limited due to multitenancy?

- The number of records returned from database queries

7. Universal Containers has an order system that uses an Order Number to identify an order for customers and service agents. Order records will be imported into Salesforce. How should the order number field be defined in Salesforce?

• **Number with External ID**

8. A Visual Flow uses an Apex Action to provide additional information about multiple Contacts stored in a custom class, ContactInfo.  
Which is the correct definition of the Apex method that gets the additional information?

• **@InvocableMethod(label='Additional Info')  
Public static List<ContactInfo> getInfo(List<Id> contactIds)  
{ /\*implementation\*/ }**

9. Universal Containers wants to back up all of the data and attachments in its Salesforce org once a month. Which approach should a developer use to meet this requirement?

**Define a Data Export scheduled job.**

10. Assuming that 'name' is a String obtained by an <apex:inputText> tag on a Visualforce page. Which two SOQL queries performed are safe from SOQL injections? Choose 2 answers
- **String query = 'SELECT Id FROM Account WHERE Name LIKE \'%\' +  
String.escapeSingleQuotes(name) + \'%\'  
List<Account> results = Database.query(query);**

• **String query = \'%\' + name + \'%\';  
List<Account> results = [SELECT Id FROM Account WHERE Name LIKE  
'query');**

11. A team of developers is working on a source-driven project that allows them to work independently, with many different org configurations.

Which type of Salesforce orgs should they use for their deployment?

• **Scratch Orgs**

12. Which code displays the content of Visualforce page as PDF?

• **<apex:page renderAs="pdf">**

13. A developer needs to implement the functionality for a service agent to gather multiple pieces of information from a customer in order to send a replacement credit card. Which automation tool meets these requirements?

• **Flow Builder**

14. What does the Lightning Component framework provide to developers?

• **Prebuilt components that can be reused**

15. Which three operations affect the number of times a trigger can fire? Choose 3 answers

• **Workflow Rules**  
• **Process Flows**  
• **Roll-up Summary fields**

16. Which two are phases in the Salesforce Application Event propagation framework? Choose 2 answers

- Bubble
- Default

17. A developer must create a DrawList class that provides capabilities defined in the Sortable and Drawable interfaces.

```
Public interface Sortable (
    Void sort();
)
Public interface Drawable (
    Void draw();
)
```

Which is the correct implementation?

- **Public class DrawList implements Sortable, Drawable {  
    Public void sort() { /\*implementation\*/}  
    Public void draw() { /\*implementation\*/}  
}**

18. Given the following anonymous Block:

```
List<Case> casesToUpdate = new List<Case>();
For(Case thisCase : [SELECT Id, Status FROM Case LIMIT 50000)){
    thisCase.Status = 'Working' ;
    casesToUpdate.add(thisCase);
}
Try{
    Database.update(casesToUpdate,false);
}catch(Exception e){
    System.debug(e.getMessage());
}
```

What should a developer consider for an environment that has over 10,000 case records?

- **The transaction will succeed and changes will be committed.**

19. A developer needs to prevent the creation of Request records when certain conditions exist in the system. A Requestlogic class exists that checks the conditions. What is the correct implementation?

- **Trigger RequestTrigger on Request (before insert) {  
    RequestLogic.validateRecords(trigger.new);  
}**

20. Universal Containers stores the availability date on each Line Item of an Order and Orders are only shipped when all of the Line Items are available. Which method should be used to calculate the estimated ship date for an Order?

- **Use a Max Roll-Up Summary field on the latest availability date fields.**

21. Which exception type cannot be caught?

- **LimitException**

22. A developer needs to confirm that a Contact trigger works correctly without changing the organization's data. What should the developer do to test the Contact trigger?

- **Use the Test menu on the Developer Console to run all test classes for the Contact trigger.**

23. A developer wants to retrieve the Contact and Users with the email address 'dev@uc.com'. Which SOSL statement should the developer use?

- **FIND {dev@uc.com} IN Email Fields RETURNING Contact (Email), User (Email)**

24. A developer has an Apex controller for a Visualforce page that takes an ID as a URL parameter. How should the developer prevent a cross site scripting vulnerability?

- **String.escapeSingleQuotes(ApexPages.currentPage().getParameters().get('url\_param'))**

25. Where are two locations a developer can look to find information about the status of asynchronous or future calls? Choose 2 answers

- **Apex Jobs**
- **Apex Flex Queue**

26. Universal Containers recently transitioned from Classic to Lightning Experience. One of its business processes requires certain values from the Opportunity object to be sent via an HTTP REST callout to its external order management system based on a user-initiated action on the Opportunity detail page. Example values are as follows:

Name

Amount

Account

Which two methods should the developer implement to fulfill the business requirement? Choose 2 answers

- Create a Visualforce page that performs the HTTP REST callout, and use a Visualforce quick action to expose component on the Opportunity detail page.
- Create a Lightning component that performs the HTTP REST callout, and use a Lightning Action to expose component on the Opportunity detail page.

27. A developer needs to have records with specific field values in order to test a new Apex class. What should the developer do to ensure the data is available to the test?

- **Use Test.loadData() and reference a static resource.**

28. Universal Containers (UC) uses a custom object called Vendor. The Vendor custom object has a Master-Detail relationship with the standard Account object. Based on some internal discussions, the UC administrator tried to change the Master-Detail relationship to a Lookup relationship but was not able to do so.

What is a possible reason that this change was not permitted?

- The Account records contain Vendor Roll-Up Summary fields.

29. Which three process automations can immediately send an email notification to the owner of an Opportunity when its amount is changed to be greater than \$10,000? Choose 3 answers

- Process Builder
- Workflow Rule
- Escalation Rule

30. A development team wants to use a deployment script to automatically deploy to a sandbox during their development cycles. Which should they use to deploy to the sandbox?

- Ant Migration Tool

31. A developer has to identify a method in an Apex class that performs resource intensive actions in memory by iterating over the result set of a SOQL statement on the Account. The method also performs a DML statement to save the changes to the database.

Which two techniques should the developer implement as a best practice to ensure transaction control and avoid exceeding governor limits? Choose 2 answers

- Use the System.Limit class to monitor the current CPU governor limit consumption.
- Use the Database.Savepoint method to enforce database integrity.

32. Which three data types can a SOQL query return? Choose 3 answers

- Integer
- sObject
- List of sObjects

33. Which code should be used to update an existing Visualforce page that uses standard Visualforce components so that the page matches the look and feel of Lightning Experience?

- <apex:page lightningStyleSheets="true">

34. Which statement generates a list of Leads and Contacts that have a field with the phrase 'ACME'?

- List<List <sObject>> searchList = [FIND '\*ACME\*' IN ALL FIELDS RETURNING Contact, Lead];

35. A developer writes a single trigger on the Account object on the after insert and after update events. A workflow rule modifies a field every time an Account is created or updated.

How many times will the trigger fire if a new Account is inserted, assuming no other automation logic is implemented on the Account?

- 2

36. A developer has the following requirements:

- Calculate the total amount on an order.

- Calculate the line amount for each line item based on quantity selected and price.
  - Move line items to a different order if a line item is not in stock.
- Which relationship implementation supports these requirements?

- **Line Item has a Master-Detail field to Order and the Master can be re-parented.**

37. Which code in a Visualforce page and /or controller might present a security vulnerability?

- `<apex:outputText escape="false" value="{$CurrentPage.parameters.UserInput}" />`

38. A developer wants to get access to the standard price book in the org while writing a test class that covers an OpportunityLineItem trigger. Which method allows access to the price book?

- **Use Test.getStandardPricebookId() to get the standard price book ID.**

39. Universal Containers (UC) decided it will not send emails to support personnel directly from Salesforce in the event that an unhandled exception occurs. Instead, UC wants an external system to be notified of the error.

What is the appropriate publish/subscribe logic to meet these requirements?

- **Have the external system subscribe to the BatchApexError event, no publishing is not necessary.**

40. A developer is asked to create a Visualforce page that displays some Account fields as well as fields configured on the page layout for related Contacts.

How should the developer implement this request?

- **Use the <apex:relatedList> tag**

41. The Job\_Application\_\_c custom object has a field that is a Master-Detail relationship to the Contact object, where the Contact object is the Master. As part of a feature implementation, a developer needs to retrieve a list containing all Contact records where the related Account Industry is 'Technology' while also retrieving the Contact's Job\_Application\_\_c records.

Based on the object's relationships, what is the most efficient statement to retrieve the list of contacts?

- **(SELECT Id, (SELECT Id FROM Job\_Application\_\_r) FROM Contact WHERE AccountsIndustry = 'Technology');**

42. Universal Containers decides to use exclusively declarative development to build out a new Salesforce application. Which three options should be used to build out the database layer for the application? Choose 3 answers

- Relationships
- Custom Objects and Fields
- Roll-Up Summaries

43. A developer creates a new Apex trigger with a helper class, and writes a test class that only exercises 95% coverage of the new Apex helper class. Change set deployment to production fails with the test coverage warning:

"Test coverage of selected Apex Trigger is 0%, at least 1% test coverage is required." What should the developer do to successfully deploy the new Apex trigger and helper class?

- **Create a test class and methods to cover the Apex trigger.**

44. What are three ways for a developer to execute tests in an org? Choose 3 answers

- Tooling API
- Setup Menu Bulk api
- ~~SalesforceDX~~

45. A developer is implementing an Apex class for a financial system. Within the class, the variables 'creditAmount' and 'debtAmount' should not be able to change once a value is assigned. In which two ways can the developer declare the variables to ensure their value can only be assigned one time? Choose 2 answers

- Use the final keyword and assign its value when declaring the variable.
- Use the final keyword and assign its value in the class constructor.

46. Universal Containers (UC) wants to lower its shipping cost while making the shipping process more efficient. The Distribution Officer advises UC to implement global addresses to allow multiple Accounts to share a default pickup address. The developer is tasked to create the supporting object and relationship for this business requirement and uses the Setup Menu to create a custom object called "Global Address".

Which field should the developer add to create the most efficient model that supports the business need?

- Add a Master-Detail field on the Global Address object to the Account object.

47. How should a custom user interface be provided when a user edits an Account in Lightning Experience?

- **Override the Account's Edit button with a Lightning Component.**

48. Given the following block of code:

```
Try{  
    List<Accounts> retrieveRecords = [SELECT Id FROM Account WHERE  
    Website = null];  
} catch(Exception e){  
    //manage exception logic  
}
```

What should a developer do to ensure the code execution is disrupted if the retrieveRecords list remains empty after the SOQL query?

- **Check the state of the retrievedRecords variable and throw a custom exception if the variable is empty.**

49. A recursive transaction is initiated by a DML statement creating records for these two objects:

1. Accounts

## 2. Contacts

The Account trigger hits a stack depth of 16.

Which statement is true regarding the outcome of the transaction?

- The transaction succeeds and all changes are committed to the database.

50. A developer created a Visualforce page and custom controller to display the Account type field as shown below.

Custom controller code:

```
public class customCtrlr{  
    private Account theAccount;  
    public String actType;  
  
    public customCtrlr(){  
        theAccount = (SELECT Id, Type FROM Account  
            WHERE Id = :ApexPages.currentPage().getParameters().get('id'));  
        actType = theAccount.Type;  
    }  
}
```

Visualforce page snippet:

The Account Type is {!actType}

The value of the account type field is not being displayed correctly on the page.  
Assuming the custom controller is properly referenced on the Visualforce page,  
what should the developer do to correct the problem?

- Add a getter method for the actType attribute.

51. A developer must implement a CheckPaymentProcessor class that provides check processing payment capabilities that adhere to what is defined for payments in the PaymentProcessor interface.

```
public interface PaymentProcessor {  
    void pay(Decimal amount);  
}
```

Which is the correct implementation to use the PaymentProcessor interface class?

- Public class CheckPaymentProcessor implements PaymentProcessor {

```
    Public void pay(Decimal amount) {};  
}
```

52. What are three considerations when using the @InvocableMethod annotation in Apex?  
Choose 3 answers

- A method using the @InvocableMethod annotation can be declared as Public or Global.

- Only one method using the `@InvocableMethod` annotation can be defined per Apex class.

- A method using the `@InvocableMethod` annotation must be declared as static.

53. Which two events need to happen when deploying to a production org? Choose 2 answers

- All triggers must have at least 1% test coverage.
- All Apex code must have at least 75% test coverage.

54. Application Events follow the traditional publish-subscribe model.

Which method is used to fire an event?

- `Fire()`

55. Given the following trigger implementation:

```
trigger leadTrigger on Lead (before update){  
    final ID BUSINESS_RECORDTYPEID = '01250000009Qad';
```

```
    for(Lead thisLead : Trigger.new){  
        if(thisLead.Company !=null && thisLead.RecordTypeId !=  
            BUSINESS_RECORDTYPEID){  
            thisLead.RecordTypeId = BUSINESS_RECORDTYPEID;  
        }  
    }  
}
```

The developer receives deployment errors every time a deployment is attempted from sandbox to production.

What should a developer do to ensure a successful deployment?

- Ensure `BUSINESS_RECORDTYPEID` is published as part of the deployment components.

56. An org has an existing Visual Flow that creates an Opportunity with an Update Records element. A developer must update the Visual Flow to also create a Contact and store the created Contact ID's on the Opportunity.

Which update should the developer make in the Visual Flow?

- Add a new Create Records element.

57. When a user edits the Postal Code on an Account, a custom Account text field named "Timezone" must be updated based on the values in a `PostalCodeToTimezone__c` custom object. How should a developer implement this feature?

- Build an Account custom trigger.

58. A Next Best Action strategy uses an Enhance Element that invokes an Apex method to determine a discount level for a Contact, based on a number of factors.

What is the correct definition of the Apex method?

- `@InvocableMethod`

```
global static List<List<Recommendation>>  
getLevel(List<ContactWrapper> input)  
{ /* implementation */}
```

**Notes:** The Enhance element can pass any number of inputs to the Apex action. The input parameter must be a list or a list of lists of a user-defined Apex object (for example, a custom class called DataContainer).

59. A developer is writing tests for a class and needs to insert records to validate functionality. Which annotation method should be used to create records for every method in the test class?

- **@TestSetup**

62. An apex method, getaccounts, that returns a list of accounts given a searchTerm, is available for lightning web components to use. What is the correct definition of a lightning web component property that uses the GetAccounts method?

- **@wire(getAccounts, { searchTerm: '\$searchTerm'})  
AccountList;**

63. What will be the output in the debug log in the event of a QueryException during a call to the @query

method in the following Example?

```
Class myClass {  
    class customeexception extends queryException {}  
    public static accounts @query() {  
        account theaccount;  
        try {  
            -  
            ----  
            ---  
            ---  
        finally {  
            system.debug('Done.');//  
        }  
        return theAccount;  
    }  
}
```

- **Querying Accounts. Query Exception. Done**

64. Which salesforce feature allows a developer to see when a user last logged into salesforce if real-time notification is not required?

- **Event monitoring log**

65. A developer must create a shippingCalculator class that cannot be instantiated and must include a working default implementation of a calculate method, that sub-classes can override.

- **Public abstract class shippingCalculator {  
public virtual void calculate() /\*implementation\*/ }**

66. A developer has an integer variable called MaxAttempts. The developer needs to ensure that once maxAttempts is initialized, it preserves its value for the length of the Apex transaction; while being able to share the variable's state between trigger executions. How should the developer declare maxAttempts to meet these requirements?

- Declare maxAttempts as a constant using the static and final keywords.

67. Which salesforce org has a complete duplicate copy of the production org including data and configuration?

- Full Sandbox

68. A developer must modify the following code snippet to prevent the number of SOQL queries issued from exceeding the platform governor limit.

- Refactor the code above to perform only one SOQL query, filtering by the set of opportunityIds.

69. Universal Containers stores orders and line Items in SF. For security reasons, financial reps are allowed to see information on the order such as order amount, but they aren't allowed to see the line items on the order. Which type of relationship should be used?

- Lookup

70. Which three statements are true regarding custom exceptions in Apex?

- Custom Exception class name must end with 'Exception'
- Custom Exception class must extend the system Exception class
- Custom Exception class can implement one or many Interfaces

71. Given the following Apext statement:

Account myAccount = [select ID, name from account] ;

What occurs when more than one account is returned by the SOQL query?

- An unhandled exception is thrown and the code terminates

72. A developer has a VF page and custom controller to save Account records. The developer wants to display any validation rule violation to the user. How can the developer make sure that validation rule violations are displayed?

- Include <apex:messages> on the visualforce page.

73. A developer observes that an Apex test method fails in the sandbox. To identify the issue, the developer copies the code inside the test method and executes it via the execute anonymous tool in the dev console. the code then executes with no exception or errors. Why did the test method fail in the sandbox and pass in the dev console?

- The test method relies on existing data in the sandbox

74. A developer identifies the following triggers on the Expense\_c object:

```
DeleteExpense,  
applyDefaultstoexpense  
validateexpenseupdate;
```

The triggers process before delete, before insert, and before update events respectively.  
Which two techniques should the developer implement to ensure trigger best practice are followed?

- Create helper classes to execute the appropriate logic when a record is saved
- unify all three triggers in a single trigger on the expense\_\_c object that includes all events

75. A developer wants to import 500 opportunity records into a sandbox

Why should the developer choose to use Data loader instead of data import wizard?

- Data import wizard does not support 'opportunities'

76. Universal Containers wants a list button to display a VF page that allows users to edit multiple records. Which VF feature supports this requirements?

- recordSetVar page attribute

77. A developer is debugging the following code to determine why accounts are not being created.

```
Account a =new account(name= 'a');  
database.insert(a,false);
```

How should the code be altered to help debug the issue?

- Add a try/catch around the insert method

78. what are two advantages of implementing the view layer of a SF application using aura component based development over VF?

- Self-contained and reusable units of an application
- rich component ecosystem

79. Universal containers implemented a private sharing model for the account object. A custom account search tool was developed with apex to help sales reps find accounts that match multiple criteria they specify. Since its release, users of the tool report they can see accounts they do not own. What should the developer use to enforce sharing permissions for the currently logged in user while using the custom search tool?

- use the 'with sharing' keyword on the class declaration

81. A developer must create a creditcardpayment class that provides an implementation of an existing payment class. Which is the correct implementation.

- PUblic class creditcardpayment extends payment {  
    public override void makepayment(decimal amount) /\*implementation\*/}

82. A developer must create a lightning component that allows users to input contact record information to create a contact record, including a salary\_\_c custom field. what should the developer use, along with a lightning-record-edit form, so that salary\_\_c field functions as a currency input and is only viewable and editable by users that have the correct field level

permissions on salary\_\_C?

- <lightning-input type="number" value="salary\_\_c" formatter="currency">  
</lightning-input>

83. A lightning component has a wired property, searchresults, that stores a list of opportunities. Which definition of the apex method, to which the searchresults property is wired, should be used?

- @auraenabled(cacheable=true)  
public static list<Opportunity> search (string term) /\*implementation\*/

84. If Apex code executes inside the execute() method of an apex class when implementing the Batchable interface, which two statements are true regarding governor limits?

- The Apex governor limits might be higher due to the asynchronous nature of the transaction
- The Apex governor limits are reset for each iteration of the execute() method.

85. What should be enabled for working of Scratch org?

- Developer hub (Dev Hub)

86. How many accounts will be inserted by the following block of code? for(Integer i = 0 ; i < 500; i++) { Account a = new Account(Name='New Account ' + i); insert a; }

- 0

87. Boolean abok;

```
Integer x;
if(abok=false;integer=x;){
X=1;
}elseif(abok=true;integer=x;){
X=2;
}elseif(abok!=null;integer=x;{
X=3;
}elseif{
X=4;}
```

- X=4

88. What are the three languages used in the visualforce page?

- Javascript, CSS, HTML

89. What are the methods used to show input in classic and lightning?

- Use visualforce page in classic and lightning component in lightning

90. Which three code lines are required to create a Lightning component on a Visualforce page? Choose 3 answers.

- <apex:includeLightning/>
- \$Lightning.createComponent

- \$Lightning.use

91. A developer must troubleshoot to pinpoint the causes of performance issues when a custom page loads in their org. Which tool should the developer use to troubleshoot?

- Developer Console

92. order of execution in salesforce

- Validation rule,trigger,workflow,process builder,commit

93. The following Apex method is part of the contactservice class that is called from a trigger.

```
Public Static Void setBusinessUnitToEMEA(Contact thisContact) {  
    thisContact.Business_Unit__c = 'EMEA';  
    update thisContact;  
}
```

How should the developer modify the code to ensure best practices are met?

```
Public Static void setBusinessUnitToEMEA(List<contact> contacts) {  
    for (contact thisContact : contacts) {  
        thisContact.Business_Unit__c = 'EMEA';  
    }  
    update contacts;  
}
```

94. Universal Containers has a large number of custom applications that were built using a third-party JavaScript framework and exposed using Visualforce pages. The company wants to update these applications to apply styling that resembles the look and feel of Lightning Experience. What should the developer do to fulfil the business request in the quickest and most effective manner?

- Incorporate the salesforce Lightning Design System CSS stylesheet into the Javascript applications.

95. An approval Process is defined in the Expense\_Item\_\_c object. A business rule dictates that whenever a user changes the status to 'submitted' on an Expense\_Report\_\_c record, all

the Expense\_item\_\_c records related to the expense report must enter the approval process individually. Which approach should be used to ensure the business requirement is met?

- Create a process Builder on Expense\_Report\_\_c with a ‘submit for approval’ action type to submit all related Expense\_Item\_\_c records when the criteria is met.

96. A developer must create an Apex class, contactcontroller, that a Lightning component can use to search for Contact records. User of the Lightning component should only be able to search Contact records to which they have access. Which two will restrict the records correctly?

- Public inherited sharing class ContactController.
- Public with sharing class ContactController.

97. What is the maximum number of SOQL queries used by the following code?

```
List<Account> aList = [SELECT Id From Account LIMIT 5] ;  
for (Account a : aList) {  
  
List <contact> cList = [SELECT Id From Contact WHERE AccountId = :a.Id];  
}
```

- 6

98. A developer created this Apex trigger that calls MyClass.myStaticMethod:

```
trigger myTrigger on Contact (before insert){  
  
MyClass.myStaticMethod(trigger.new, trigger.oldMap) ;  
}
```

The developer creates a testclass with a test method that calls MyClass.myStaticMethod, resulting in 81% overall code coverage. What happens when the developer tries to deploy the trigger and two classes to production, assuming no other code exists?

- The deployment fails because the Apex trigger has no code coverage

99. What are two ways a developer can get the status of an enqueued job for a class that implements the queueable interface?

- View the Apex Jobs page

- View the Apex Flex Queue.

100. How does the Lightning Component framework help developers implement solutions faster?

- By providing device-awareness for mobile and desktops

101. What are two ways for a developer to execute tests in an org?

- Tooling API

- Developer console

102. What is a fundamental difference b/w Master-Detail relationship and Lookup relationship?

- A Master-Detail relationship detail record inherits the sharing and security of its master record.

103. A developer writes a trigger on the Account object on the before update event that increments a count field. A workflow rule also increments the count field every time an Account is created or updated. The field update in the workflow rule is configured to not to re-evaluate workflow rules. What is the value of the count field if an Account is inserted with an initial value of zero, assuming no other automation logic is implemented on the Account?

- 4, check in dev console: 2

104. A licensed\_professional\_\_c custom object exists in the system with two master-detail fields for the following objects: Certification\_\_c and Contact. Users with the 'certification representative' role can access the certification records they own and view the related licensed professional records, however, users with the sales representative role report they cannot view any licensed professional records even though they own the associated contact record. What are two likely causes of users in the 'sales reps' role not being able to access the licensed professional records?

- The Organization recently modified the sales reps role to restrict read/write access to

licensed\_professional\_\_c

- The org has a private sharing model for Certification \_\_c and certification \_\_c is the primary relationship in the licensed-professional\_\_c object.

105. A custom picklist field, food\_preference\_\_c, exists on a custom object. The picklist contains the following options; 'vegan','kosher','no prefernce'. The developer must ensure a value is populated every time a record is created or updated. what is the most efficient way to ensure a value is selected every time a record is saved?

- Mark the field as required on the field definition.