

1. A method is passed a list of generic sObjects as a parameter.

**What should the developer do to determine which object type (Account, Lead, or Contact, for example) to cast each sObject?**

- A. ☐ Use the getSObjectType method on each generic sObject to retrieve the sObject token.
- B. ☐ Use the getSObjectType method on the sObject class to get the sObject name.
- C. ☐ Use the first three characters of the sObject ID to determine the sObject type.
- D. ☐ Use a try-catch construct to cast the sObject into one of the three sObject types.

Answer: A

2. Which two strategies should a developer use to avoid hitting governor limits when developing in a multi-tenant environment

**Choose 2 answers**

- A. ☐ Use SOQL for loops to iterate data retrieved from queries that return a high number of rows.
- B. ☐ Use methods from the "Limits" class to monitor governor limits.
- C. ☐ Use variables within Apex classes to store large amounts of data.
- D. ☐ Use collections to store all fields from a related object and not just minimally required fields.

Answers: A, B

3. Which tool allows a developer to send requests to the salesforce REST APIs and view the responses?

- A. ☐ Developer Console REST tab
- B. ☐ REST resource Path URL
- C. ☐ Workbench Rest Explorer
- D. ☐ Force.com IDE REST Explorer Tab

Answer: C

4. What is a capability of the <itng:require> tag that is used for loading external Javascript libraries in Lightning Components?

Choose 3 answers

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

Answer: C, D, E

5. A newly hired developer discovers that there are multiple triggers on the case object.

What should the developer consider when working with triggers?

- A. ☐ Trigger execution order is based on creation date and time.
- B. ☐ Developers must dictate the order of trigger execution.
- C. ☐ Trigger execution order is not guaranteed for the same sObject.
- D. ☐ Unit tests must specify the trigger being tested.

Answer: C

6. In a single record, a user selects multiple values from a multi-select picklist.

How are the selected values represented in Apex?

- A. ☐ As a List<String> with each values as an element in the list
- B. ☐ As a Set<String> with each values as an element in the set
- C. ☐ As a String with each value separeated by a semicolon
- D. ☐ As a String with each value separeated by a comma

Answer: C

**7. Which two statements are true about using the @testSetup annotation in an Apex test class?**

**Choose 2 answers**

- A. ☐ The @testSetup method is automatically executed before each test method in the test class is executed.
- B. ☐ Test data is inserted once for all test methods in a class.
- C. ☐ The @testSetup annotation cannot be used when the @isTest(SeeAllData=True) annotation is used.
- D. ☐ Records created in the @testSetup method cannot be updated in individual test methods.

Answers: B, C

**8. What are three characteristics of static methods?**

**Choose 3 answers**

- A. ☐ Initialized only when a class is loaded.
- B. ☐ A static variable is available outside of the scope of an Apex transaction
- C. ☐ Allowed only in outer classes
- D. ☐ Allowed only in inner classes
- E. ☐ Excluded from the view state for a Visualforce page

Answers: A, C, E

**9. A developer created a Visualforce page and a custom controller with methods to handle different buttons and events that can occur on the page.**

**What should the developer do to deploy to production?**

- A. ☐ Create a test class that provides coverage of the Visualforce Page.
- B. ☐ Create a test page that provides coverage of the Visualforce Page.
- C. ☐ Create a test class that provides coverage of the custom controller.
- D. ☐ Create a test page that provides coverage of the custom controller.

Answer: C

- 10. A platform developer at Universal containers 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?**

- A. ☐ readonly
- B. ☐ extensions
- C. ☐ action
- D. ☐ standardController
- E. ☐ renderAs

Answers: B, C, E

- 11. A developer is asked to set a picklist fields to 'Monitor' on any new Leads owned by a subset of Users.**

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

- A. ☐ Create an after insert Lead trigger.
- B. ☐ Create a before insert Lead trigger.
- C. ☐ Create a Lead formula field.
- D. ☐ Create a Lead Workflow Rule Field Update.

Answer: D

- 12. A developer needs to test an Invoicing system integration. After reviewing the number of transactions required for the test, the developer estimates that the test data will total about 2 GB of data storage. Production data is not required for the integration testing.**

**Which two environments meet the requirements for testing?**

- A. ☐ Partial Sandbox
- B. ☐ Developer Edition
- C. ☐ Developer Pro Sandbox
- D. ☐ Full Sandbox
- E. ☐ Developer Sandbox

Answers: A, D

**13. What are three ways for a developer to execute tests in an org?**

**Choose 3 answers**

- A. ☐ Developer Console
- B. ☐ Setup Menu
- C. ☐ Metadata API
- D. ☐ Tooling API
- E. ☐ Bulk API

Answers: A, B, D

**14. Which three declarative fields are correctly mapped to variable types in Apex?**

**Choose 3 answers**

- A. ☐ Checkbox maps to Boolean
- B. ☐ Number maps to Integer
- C. ☐ Date/Time maps to Datetime
- D. ☐ TextArea maps to List of type String
- E. ☐ Number maps to Decimal

Answers: A, C, E

**15. A developer is asked to create a PDF quote document formatted using the company's branding guidelines, and automatically save it to the Opportunity record.**

**What two ways should a developer create the functionality?**

**Choose 2 answers**

- A. ☐ Create a Visualforce Page with custom styling.
- B. ☐ Create an email template and use it in Process Builder.
- C. ☐ Install an application from the AppExchange to generate documents.
- D. ☐ Create a visual flow that implements the company's formatting.

Answer:

- 16. A developer needs to join data removed 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.**

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

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

Answer: D

- 17. When is an Apex Trigger required instead of a Process Builder Process?**

- A. ☐ When an action needs to be taken on a delete or undelete, or before a DML operation is executed.
- B. ☐ When multiple records related to the triggering record need to be updated.
- C. ☐ When a record needs to be created.
- D. ☐ When a post to Chatter needs to be created.

Answer: A

- 18. A Visualforce page is required for displaying and editing Case records that includes both standard and custom functionality defined in an Apex class called myControllerExtension.**

**The Visualforce page should include which <apex:page> attribute(s) to correctly implement controller functionality?**

- A. ☐ standardController = "Case" and extensions = "myControllerExtension"
- B. ☐ controller = "myControllerExtension"
- C. ☐ extensions = "myControllerExtension"
- D. ☐ controller = "Case" and extensions = "myControllerExtension"

Answer: A

**19. A developer executes a following query in Apex to retrieve a list of contacts for each account**

**List<Account> accounts = [Select ID, Name, (Select ID, Name from Contacts) from Account];**

**two exceptions may occur when it executes?**

**Choose 2 answers**

- A. ☐ SOQL query row limit exception due to the number of contacts
- B. ☐ CPU limit exception due to the complexity of the query
- C. ☐ SOQL query limit exception due to the number of queries.
- D. ☐ SOQL query row limit exception due to the number of accounts

Answers: A, D (there could be more no of accounts and contacts exceeding limit -i.e., 50k)

**20. A developer needs to display all of the available fields for an object.**

**In which two ways can the developer retrieve the available fields if the variable myObject represents the name of the object?**

**Choose 2 answers**

- A. ☐ Use `getGlobalDescribe().get(myObject).getDescribe().fields.getMap()` to return a map of fields.
- B. ☐ Use `myObject.sObjectType.getDescribe().fieldset()` to return a set of fields.
- C. ☐ Use `Schema.describeSObjects(new String[] {myObject}).[0].fields.getMap()` to return to map of fields.
- D. ☐ Use `SObjectType.myObject.fields.getMap()` to return a map of fields.

Answers: C, D

**21. The operation manager at a construction company uses a custom object called Machinery to manage the usage and maintenance of its cranes and other machinery. The manager wants to be able to assign machinery to different construction jobs, and track the dates and costs associated with each jobs. More than one piece of machinery can be assigned to one construction job.**

**What should a developer do to meet these requirements?**

- A. ☐ Create a Master-Detail Lookup on the Machinery object to the Construction Job object.
- B. ☐ Create a lookup field on the Construction Job Object to the Machinery object.
- C. ☐ Create a lookup field on the Machinery object Object to the Construction Job.
- D. ☐ Create a junction object with Master-Detail Relationships to both the Machinery object and the Construction Job.

Answer:

**22. A developer working on a time management application wants to make total hours for each timecard available to application users. A timecard entry has Master-Detail relationship to a timecard.**

**Which approach should the developer use to accomplish this declaratively?**

- A. ☐ A Process Builder process that updates a field on the timecard when a timecard entry is created
- B. ☐ An Apex trigger that uses an Aggregate Query to calculate the hours for a given timecard and stores it in a custom field.
- C. ☐ A Visualforce page that calculates the total number of hours for a timecard and displays it on the page.
- D. ☐ A Roll-Up Summary field on the Timecard Object that calculates the total hours from timecard entries for that timecard.

Answer:

**23. What are the two valid options for iterating through each Account in the collection List<Account> named AccountList?**

**Choose 2 answers**

- A. ☐ for (List L : AccountList) {...}
- B. ☐ for (AccountList) {...}
- C. ☐ for (Account theAccount : AccountList) {...}
- D. ☐ for (integer i=0; i < AccountList.Size(); i++) {...}

Answers: C, D

**24. Which SOQL query successfully returns the Accounts grouped by name?**

- A. ☐ SELECT Name, Max(CreatedDate) FROM Account GROUP BY Name
- B. ☐ SELECT Type, Max(CreatedDate) FROM Account GROUP BY Name
- C. ☐ SELECT Id, Name, Max(CreatedDate) FROM Account GROUP BY Name
- D. ☐ SELECT Type, Name, Max(CreatedDate) FROM Account GROUP BY Name LIMIT 5

Answer: A (first field must have grouped always)

**25. Which approach should a developer use to add pagination to a Visualforce Page?**

- A. ☐ A StandardSetController
- B. ☐ The extensions attribute for a page
- C. ☐ The action attribute for a page
- D. ☐ A StandardController

Answer: A



**26. What is a requirement for a class to be used as a custom Visualforce controller?**

- A. ☐ Any top-level Apex class that extends a PageReference
- B. ☐ Any top-level Apex class that has a constructor that returns a PageReference
- C. ☐ Any top-level Apex class that has a default, no-argument constructor
- D. ☐ Any top-level Apex class that implements the controller interface

Answer: C

**27. Using the Schema Builder, a developer tries to change the API name of a field that is referenced in an Apex test class.**

**What is the end result?**

- A. ☐ The API name of the field is changed, and a warning is issued to update the class.
- B. ☐ The API name of the field and the reference in the test class is changed.
- C. ☐ The API name is not changed and there are no other impacts.
- D. ☐ The API name of the field and the reference in the test class is updated.

Answer: C

**28. Universal Containers wants Opportunities to be locked down from editing when reaching the Closed/Won stage.**

**Which two strategies should a developer use to accomplish this?**

**Choose 2 answers**

- A. ☐ Use the Process Automation Settings
- B. ☐ Use a Trigger
- C. ☐ Use a Visual Workflow
- D. ☐ Use a validation rule

Answer: B, D (doubt)

**29. What is the result of the debug statements in testMethod3 when you create test data using below code?**

```
@isTest
Private class CreateAndExecuteTest
{

    @testSetup
    Static void setup()
    {
        // Create 2 test accounts
        List<Account> testAccts = new List<Account>();
    }
}
```

## Platform Developer - I (Summer 18)

```
For(Integer i=0; i<2; i++)
{
    testAccts.add(new Account (Name = 'MyTestAccount' + i,
                                Phone='333-678' + i) )
}
Insert testAccts;
}
@istTest static void testMethod1()
{
    Account acc = [SELECT Id, Phone FROM Account WHERE Name =
                    'MyTestAccount0' LIMIT 1];
    acc.Phone = '888-1515' ;
    update acc;

    Account acc2 = [SELECT Id, Phone FROM Account WHERE Name =
                    'MyTestAccount1' LIMIT 1];
    acc.Phone = '999-1515' ;
    update acc2;
}
@istTest static void testMethod2()
{
    Account acc = [SELECT Id, Phone FROM Account WHERE Name =
                    'MyTestAccount1' LIMIT 1];
    acc.Phone = '999-2525' ;
    update acc;
}
@istTest static void testMethod3()
{
    Account acc0 = [SELECT Id, Phone FROM Account WHERE Name =
                    'MyTestAccount0' LIMIT 1];
    Account acc1 = [SELECT Id, Phone FROM Account WHERE Name =
                    'MyTestAccount1' LIMIT 1];
    System.debug('Account0.Phone=' + acc0.Phone + ' ,
                  Account1.Phone=' + acc1.Phone);
}
}
```

- A. ☐ Account0.Phone=333-8781, Account1.Phone=333-8780
- B. ☐ Account0.Phone=888-1515, Account1.Phone=999-1515
- C. ☐ Account0.Phone=333-8780, Account1.Phone=333-8781
- D. ☐ Account0.Phone=888-1515, Account1.Phone=999-2525

Answer: C

**30. A Platform Developer needs to write an Apex method that will only perform an action if a record is assigned specific Record Type.**

**Which two options allow the developer to dynamically determine the ID of the required Record Type by its name?**

**Choose 2 answers**

- A. ☐ Hardcode the ID as a constant in an Apex class
- B. ☐ Execute a SOQL query on the RecordType Object.
- C. ☐ Use the getRecordTypeInfoByName() method in the DescribeSObjectResult Class.
- D. ☐ Make an outbound web service call to the SOAP API.

Answers: B, C

**31. Which approach should a developer take to automatically add a “maintenance Plan” to each Opportunity that includes as “Annual Subscription” when an opportunity is closed?**

- A. ☐ Builds an OpportunityLineItem trigger to add an OpportunityLineItem record.
- B. ☐ Builds an OpportunityLineItem trigger that adds a PriceBookEntry record.
- C. ☐ Builds an Opportunity trigger that adds a PriceBookEntry record.
- D. ☐ Builds an Opportunity trigger to add an OpportunityLineItem record.

Answer:

**32. A developer has the controller class below**

```
Public with sharing class myFooController
{
    public integer prop { get; private set;}
}
```

**Which code block will run successfully in an execute anonymous window?**

- A. ☐ myFooController m = new myFooController ();  
System.assert (m.prop !=null);
- B. ☐ myFooController m = new myFooController ();  
System.assert (m.prop ==1);
- C. ☐ myFooController m = new myFooController ();  
System.assert (m.prop ==null);

- D. ☐ myFooController m = new myFooController ();  
System.assert (m.prop ==0);

Answer: C

**33. How should a developer make sure that a child record on a custom object, with a lookup to the Account object, has the same sharing access as its associated account?**

- A. ☐ Include the sharing related list on the custom object page layout.  
B. ☐ Create a Sharing Rule comparing the custom object owner to the account owner.  
C. ☐ Ensure that the relationship between the objects is Master-Detail.  
D. ☐ Create a validation rule on the custom object comparing the record owners on both records.

Answer: C

**34. A developer wants to override a button using Visualforce on an object.**

**What is the requirement?**

- A. ☐ The action attribute must be set to a controller method.  
B. ☐ The controller or extension must have a PageReference method.  
C. ☐ The object record must be instantiated in a controller or extension.  
D. ☐ The standardController attribute must be set to the object.

Answer: D

**35. Which two Apex data types can be used to reference a Salesforce record ID dynamically?**

**Choose 2 answers**

- A. ☐ sObject  
B. ☐ String  
C. ☐ ENUM  
D. ☐ External Id

Answers: B, C

**36. A developer encounters APEX heap errors in a trigger.**

**Which two methods should the developer use to avoid this error?**

- A. ☐ Use SOQL for loops instead of assigning large queries results to a single collection and looping through the collection
- B. ☐ Remove or set collections to null after use.
- C. ☐ Use the transient keyword when declaring variables
- D. ☐ Query and store fields from the related object in a collection when updating related objects

Answers: A, C

**37. Given:**

```
Map<ID, Account> accountMap = new Map<ID, Account> ([SELECT Id, Name FROM Account ]);
```

**What are three valid Apex loop structures for iterating through items in the collection?**

**Choose 3 answers**

- A. ☐ for (ID accountID : accountMap.keySet() ) {...}
- B. ☐ for (Account accountRecord : accountMap.values() ) {...}
- C. ☐ for (Integer i=0; i < accountMap.Size(); i++ ) {...}
- D. ☐ for (ID accountID : accountMap ) {...}
- E. ☐ for (Account accountRecord : accountMap.keySet() ) {...}

Answers: A, B, C

**38. An Org has a single account named 'NoContacts' that has no related contacts. Given the query:**

```
List<Account> accounts = [Select ID, (Select ID, Name from contacts) from Account where Name= "NoContacts"];
```

**What is the result of running this Apex?**

- A. ☐ Accounts[0] is Null.
- B. ☐ Accounts[0] contacts is invalid Apex.
- C. ☐ Accounts[0] contacts is an empty list.
- D. ☐ A QueryException is thrown

Answer: C

39. A developer wrote a unit test to confirm that a custom exception works properly in a custom controller, but the test failed due to an exception being thrown.

**What steps should the developer take to resolve the issue and properly test the exception?**

- A. ☐ Use the finally block within the unit test to populate the exception
- B. ☐ Use database methods with all or none set to False
- C. ☐ Use try/catch within the unit test to catch the exception
- D. ☐ Use Test.isRunningTest() within the custom Controller

Answer: C

40. Which statement results in an Apex compiler error?

- A. ☐ Map<id, Lead> lmap = new map <Id, Lead> ([Select ID from Lead Limit 8]);
- B. ☐ List<string> s = List<string> { 'a','b','c'};
- C. ☐ Integer a=5, b=6,c,d=7;
- D. ☐ Date D1 = Date.Today(), d2 = DATE.ValueOf('2018-01-01');

Answer: 2 (Because keyword **new** is missing)

41. How can developer set debug log on a specific user?

- A. ☐ It is not possible to setup debug logs for users other than yourself.
- B. ☐ Create Apex code that logs code actions in to a custom object.
- C. ☐ Asks user to access their account credentials, log in as user and debug the issue
- D. ☐ Setup the trace flag for a user, and define a logging level and time period for the trace.

Answer: D

42. How should a developer create a new custom exception class?

- A. ☐ Public class CustomException extends Exception{}
- B. ☐ CustomException ex = new (CustomException) Exception();
- C. ☐ (Exception) CustomException ex = new Exception();
- D. ☐ Public class CustomException implements Exception{}

Answer: A

43. While writing a test class that covers an OpportunityLineItem trigger, a Developer is unable to create a standard Pricebook since one already exist in the org. how should the developer overcome this problem?

- A. ☐ Use @IsTest(SeeAllData=true) and delete the existing standard Pricebook.
- B. ☐ Use @TestVisible to allow the test method to see the standard Pricebook.
- C. ☐ Use Test.getStandardPricebookId() to get the standard Pricebook ID.
- D. ☐ Use Test.loadData() and a Static Resource to load a standard Pricebook.

Answer: C

44. A lead object has a custom field Prior\_Email\_\_c. The following trigger is intended to copy current email into the Prior\_Email\_\_c field anytime the email field is changed:

```
trigger test on Lead (before update)
{
    for (Lead Id: trigger.new)
    {
        if (Id.Email != trigger.oldMap.get(Id.id).Email)
        {
            Id.Prior_Email__c = trigger.oldMap.get(Id.id).Email;
            update Id;
        }
    }
}
```

Which type of exception will this trigger cause?

- A. ☐ A compile time exception
- B. ☐ A null reference exception
- C. ☐ A DML exception
- D. ☐ A Limit Exception when doing a bulk update

Answer: C

45. Which two platform features align to the controller portion of MVC architecture

- A. ☐ Standard Objects
- B. ☐ Workflow Rules
- C. ☐ Date Fields
- D. ☐ Process Builder actions

Answers: B, D

**46. Which two number expressions evaluate correctly?**

**Choose 2 answers**

- A. ☐ Double d = 3.14159;
- B. ☐ Integer i = 3.14159;
- C. ☐ Decimal d = 3.14159;
- D. ☐ Long l = 3.14159;

Answers: A, C

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

**Choose 3 answers**

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

Answer:

**48. What are two uses for External IDS?**

**Choose 2 answers**

- A. ☐ To Create relationships between records imported from an external system ?
- B. ☐ To identify the subject type in salesforce
- C. ☐ To prevent an import from creating duplicate records using Upsert
- D. ☐ To create a record in a development environment with the same salesforce ID as in another environment

Answers: C, D

**49. A developer needs to create a visualforce page that displays case data. The page will be used by both support reps and support managers. The support rep profile does not allow visibility of the customer\_Satisfaction\_c Field, but the support manager profile does.**

**How can the developer create the page to enforce field level security and keep future maintenance to a minimum?**

- A. ☐ Create one visualforce page for use by both profiles
- B. ☐ Use a new support manager permission sets
- C. ☐ Create a separate visualforce page for each profile
- D. ☐ Use a custom controller that has the with sharing keywords

Answer: D



**50. What is a benefit of using an after insert trigger over using a before insert trigger?**

- A. ☐ An after insert trigger allows a developer to bypass validation rules when updating fields on the new records
- B. ☐ An after insert trigger allows a developer to make a callout to an external service.
- C. ☐ An after insert trigger allows a developer to insert other objects that reference the new records
- D. ☐ An after insert trigger allows a developer to modify fields in the new record without a query.

Answer: C

**51. Which three options can be accomplished with formula fields?**

**Choose 3 answers**

- A. ☐ Generate a link using the HYPERLINK function to a specific record in a legacy system
- B. ☐ Determine if a datetime field has passed using the NOW function
- C. ☐ Determine which of three different images to display using IF function
- D. ☐ Return and display a field value from another object using the VLOOKUP function
- E. ☐ Display the previous value for a field using the PRIORVALUE function

Answers: A, B, C

**52. which three options allow a developer to use custom styling in a visualforce page?**

**Choose 3 answers**

- A. ☐ inline CSS
- B. ☐ a static resource
- C. ☐ <apex:style> tag
- D. ☐ <apex:stylesheets> tag
- E. ☐ <apex:stylesheet> tag

Answers:

53. A developer writes the following code:

```
List<Account> acc = [SELECT Id FROM Account LIMIT 10];
Delete acc;
Database.emptyRecycleBin (acc);
System. Debug (Limits.getDMLStatements () +', '+ Limits.getLimitDMLStatements () );
```

What is the result of the debug statement?

- A. ☐ 2,150
- B. ☐ 1,150
- C. ☐ 1,100
- D. ☐ 2,200

Answer: A

54. When an Account's custom picklist field called Customer Sentiment is changed to a value of "Confused," a new related Cases should automatically be created.

Which two methods should a developer use to create this case?

Choose two answers

- A. ☐ Process Builder
- B. ☐ Custom Button
- C. ☐ Apex Trigger
- D. ☐ Workflow Rule

Answers: A, C

55. Which approach should be used to provide test data for a test class?

- A. ☐ Execute anonymous code blocks that create data.
- B. ☐ Query for existing records in the database.
- C. ☐ Use a test data factory class to create test data.
- D. ☐ Access data in @TestVisible class Variables.

Answer: C

**56. Where can a developer identify the time taken by each process in request using Developer console log inspector.**

- A. ☐ Save order tab under Execution Overview panel
- B. ☐ Performance Tree tab under Stack Tree Panel
- C. ☐ Timeline tab under Execution Overview panel
- D. ☐ Execution tree tab under Stack Tree Panel

Answer: C

**57. How should a developer avoid hitting the governor limits in test methods?**

- A. ☐ Use Test.startTest() to reset governor limits
- B. ☐ Use @TestVisible on methods that creates records
- C. ☐ Use @IsTest (SeeAllData=true) to use existing data
- D. ☐ Use Test.loadData() to load data from a static resource.

Answer: A

**58. Why would a developer consider using a custom controller over a controller extension?**

- A. ☐ To increase the SOQL query governor's limits
- B. ☐ To leverage built-in functionality of a standard controller
- C. ☐ To enforce user sharing settings and permissions
- D. ☐ To implement all of the logic for a page and bypass default salesforce functionality

Answer: D

**59. How should a developer prevent a recursive trigger?**

- A. ☐ Use a static Boolean variable
- B. ☐ Use a private Boolean variable
- C. ☐ Use a trigger handler
- D. ☐ Use a "one trigger per object" pattern

Answer: A

**60. What are two benefits of the lightning component framework?**

**Choose 2 answers**

- A. ☐ It allows faster PDF generation with lightning components
- B. ☐ It simplifies complexity when building pages, but not applications
- C. ☐ It provides an event-driven architecture for better decoupling between components
- D. ☐ It promotes faster development using out-of-the-box components that are suitable for desktop and mobile devices.

Answers: C, D

**61. A developer created a Lightning Component to display a short text summary for an object and wants to use it with multiple Apex classes.**

**How should the developer design the Apex classes?**

- A. ☐ Extend each class from the same base class that has a method `getTextSummary()` that returns the summary.
- B. ☐ Have each class define method `getTextSummary()` that returns the summary.
- C. ☐ Have each class define method `getObject()` that returns the `sObject` that is controlled by the Apex class.
- D. ☐ Have each class implement an interface that defines method `getTextSummary()` that returns the summary.

Answer: A

**62. When viewing Quote, the sales representative wants to easily see how many discounted items are included in the Quote Line Items.**

**What should a developer do to meet this requirement?**

- A. ☐ Create a Workflow Rule on the Quote Line Item object that updates a field on the parent Quote when the item is discounted.
- B. ☐ Create a roll-up summary field on the Quote Line Item Quantity field, filtered for only discounted Quote Line Items.
- C. ☐ Create a trigger on the Quote object that queries the Quantity field on discounted Quote Line Items.
- D. ☐ Create a formula field on the Quote object that performs a SUM on the Quote Line Item Quantity field, filtered for only discounted Quote Line Items.

Answer:

**63. Which three tools can deploy metadata to production?**

**Choose 3 answers**

- A. ☐ Change Set form Developer Org
- B. ☐ Metadata API
- C. ☐ Change Set form Sandbox
- D. ☐ Force.com IDE
- E. ☐ Data Loader

Answer: A, B, C

**64. Which set of roll-up types are available when creating a roll-up summary field?**

- A. ☐ SUM, MIN, MAX
- B. ☐ AVERAGE, SUM, MIN, MAX
- C. ☐ AVERAGE, COUNT, SUM, MIN, MAX
- D. ☐ COUNT, SUM, MIN, MAX

Answer: D

**65. What should a developer use to implement an automatic Approval Process submission for cases?**

- A. ☐ Process Builder
- B. ☐ Scheduled Apex
- C. ☐ An Assignment Rule
- D. ☐ A Workflow Rule

Answer: A

