QUESTION 30
Hotspot Question
A company has a model-driven app.
A custom button on a form calls a JavaScript function that validates form data fields and creates a web basket. The JavaScript function then displays a message to the user.
Users are located in the United States, which uses ISO Code 1033, and France, which uses ISO Code 1036.
Users in France report that the message displays in English.
You need to modify the RibbonDiffXml file to ensure that messages appear in the user's language.
How should you complete the CommandDefinition node? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.

Answer Area

```
<CommandDefinitions>
    <CommandDefinition Id="GenerateBasket.Command">
        <Actions>
            <JavaScriptFunction FunctionName=" generatebasket"
Library="$webresource:mb_/scripts/basket.js">
                <              ▼  Value="          ▼  "/>
```

CrmParameter		1033
IntParameter		1036
StringParameter		OrgLcid
		UserLcid

```
            </JavaScriptFunction>
        </Actions>
    </CommandDefinition>
</CommandDefinitions>
```

Answer:

Answer Area

```
<CommandDefinitions>
    <CommandDefinition Id="GenerateBasket.Command">
        <Actions>
            <JavaScriptFunction FunctionName=" generatebasket"
Library="$webresource:mb_/scripts/basket.js">
                <  [  ▼ ]  Value="[  ▼ ]"/>
```
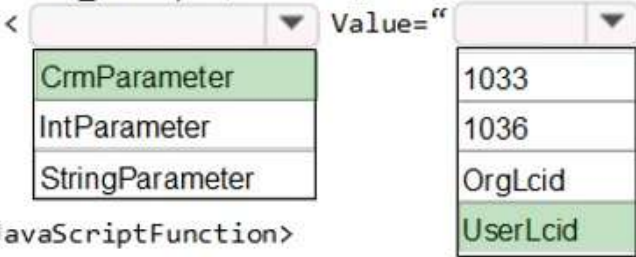
| CrmParameter |
| IntParameter |
| StringParameter |

| 1033 |
| 1036 |
| OrgLcid |
| UserLcid |

```
            </JavaScriptFunction>
        </Actions>
    </CommandDefinition>
</CommandDefinitions>
```

Explanation:
Box 1: CrmParameter
Ribbon actions are defined in the <Actions> element of a <CommandDefinition> element. There are several ways to pass contextual Dynamics 365 for Customer Engagement information as query string parameters to a URL by using the ribbon.
You can use a <JavaScriptFunction> element together with a <CrmParameter> element.
Box 2: UserLcid
Userlcid User Language Code: Language code identifier that is used by the current user.
Reference:
https://docs.microsoft.com/en-us/dynamics365/customerengagement/on-premises/developer/customize-dev/pass-parameters-url-by-using-ribbon

QUESTION 31
Hotspot Question
A company has a model-driven app that captures applications from prospective students.
You are asked to create a new re-usable custom component using the PowerApps component framework (PCF).
The custom component must allow entry of a date of birth and validate that the applicant is not a minor.
You create the class AdultDatePicker in the TypeScript file Index.ts and the style sheet DatePicker.css.
You need to define the component to be available only for relevant fields and its properties when used in a form.
How should you complete the manifest? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.

Answer Area

```xml
<?xml version="1.0" encoding="utf-8"?>
<manifest>
    <control namespace="delegate" constructor= [▼ ]
```
Index.ts
DatePicker.css
AdultDatepicker

```
version="1.0.0" display-name-key="Date Picker" description-key="Date of
Birth Date Picker that validates if a minor" control-type="standard">
            <property name="value" display-name-key="Value" description-
key="Value" of type= [▼ ]          usage= [▼ ]
```
Enum
DateandTime,DateandTime
DateandTime,DateOnly

bound
input

```
required="true" />
            <resources>
                <code path="Index.ts" order="1" />
                    <css path="css/DatePicker.css" order="1" />
            </resources>
        </control>
</manifest>
```

Answer:

Answer Area

```xml
<?xml version="1.0" encoding="utf-8"?>
<manifest>
    <control namespace="delegate" constructor= [▼ ]
```
Index.ts
DatePicker.css
AdultDatepicker

```
version="1.0.0" display-name-key="Date Picker" description-key="Date of
Birth Date Picker that validates if a minor" control-type="standard">
            <property name="value" display-name-key="Value" description-
key="Value" of type= [▼ ]          usage= [▼ ]
```
Enum
DateandTime,DateandTime
DateandTime,DateOnly

bound
input

```
required="true" />
            <resources>
                <code path="Index.ts" order="1" />
                    <css path="css/DatePicker.css" order="1" />
            </resources>
        </control>
</manifest>
```

Explanation:
Box 1: AdultDatepicker
Specify the implemented class.
Box 2: DateandTime, DateOnly

The custom component must allow entry of a date of birth and validate that the applicant is not a minor.
DateOnly is enough.
Box 3: input
Reference:
https://docs.microsoft.com/en-us/powerapps/developer/component-framework/implementing-controls-using-typescript

QUESTION 32
Hotspot Question
You need to complete a PowerApps component framework (PCF) control.
How should you define the order in the manifest? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.

Answer Area

```
<resources>
        <code path="scripts/HelloWorldControlWave.js" order="1"/>
        <code path="scripts/HelloWorldControlRandom.js" order="2"/>
        <css path="style/HelloWorldControl.css" order="    [▼]    "/>
                                                         1
                                                         2
                                                         3

        <html path="HelloWorldControlWaveRandom.htm" order="   [▼]  "/>
</resources>                                                 1
                                                             2
                                                             3
```

Answer:

Answer Area

```
<resources>
        <code path="scripts/HelloWorldControlWave.js" order="1"/>
        <code path="scripts/HelloWorldControlRandom.js" order="2"/>
        <css path="style/HelloWorldControl.css" order="   [▼]  "/>
                                                       1
                                                       2
                                                       3

        <html path="HelloWorldControlWaveRandom.htm" order="  [▼]  "/>
</resources>                                               1
                                                           2
                                                           3
```

Explanation:
The order property specifies the order of a flexible item relative to the rest of the flexible items inside the same container.
Reference:
https://www.w3schools.com/jsref/prop_style_order.asp

QUESTION 33
Hotspot Question
A manufacturing company takes online orders.
The company requires validation of order changes. Requirements are as follows:

- If validation is successful, the order is submitted.
- If exceptions are encountered, a message must be shown to the customer.

You need to set up and deploy a plug-in that encapsulates the rules.

Which options should you use? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

Settings	Options
Execution stage	▼
	PreValidation
	PreOperation
	PostOperation
Execution mode	▼
	Asynchronous
	Synchronous
Image	▼
	Pre image
	Post image
Error message	▼
	throw new InvalidPluginExecutionException("Your error message", ex);
	tracingService.Trace("Your error message: {0}", ex.ToString0);

Answer:

Answer Area

Settings	Options
Execution stage	▼
	PreValidation
	PreOperation
	PostOperation
Execution mode	▼
	Asynchronous
	Synchronous
Image	▼
	Pre image
	Post image
Error message	▼
	throw new InvalidPluginExecutionException("Your error message", ex);
	tracingService.Trace("Your error message: {0}", ex.ToString0);

Explanation:
Box 1: PreValidation
PreValidation
Pre-event/Pre-Validation
This stage executes before anything else, even before basic validation if the triggering action is even allowed based on security. Therefore, it would be possible to trigger the plug-in code even without actually having permission to do so and great consideration must be used when writing a pre-validation plug-in. Also, execution in this stage might not be part of the database transaction.
Examples:-security checks being performed to verify the calling or logged on user has the correct permissions to perform the intended operation.
Note: Ideally, you should only cancel operations using synchronous plug-ins registered in the PreValidation stage. This stage usually occurs outside the main database transaction. Cancelling an operation before it reaches the transaction is highly desirable because the cancelled operation has to be rolled back.
Box 2: Synchronous
When you throw an InvalidPluginExecutionException exception within a synchronous plug-in an error dialog with your message will be displayed to the user.
Box 3: Pre Image

When are the different images available in the event execution pipeline?

Message	Stage	Pre-Image	Post-Image
Create	PRE	No	No
Create	POST	No	Yes
Update	PRE	Yes	No
Update	POST	Yes	Yes
Delete	PRE	Yes	No
Delete	POST	Yes	No

Box 4: Throw new InvalidPluginExecutionException("Your error message", ex); When you throw an InvalidPluginExecutionException exception within a synchronous plug-in an error dialog with your message will be displayed to the user.
Reference:
https://docs.microsoft.com/en-us/powerapps/developer/common-data-service/handle-exceptions
https://community.dynamics.com/crm/b/thinkdynamicdodynamic/posts/pre-image-and-post-image-in-dynamics-crm

QUESTION 34
Drag and Drop Question
You are creating a flow using the Common Data Service (CDS) connector.
You need to select the appropriate triggers.
Which triggers should you use? To answer, drag the appropriate triggers to the correct scenarios. Each trigger may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.
NOTE: Each correct selection is worth one point.

Triggers

Record creation

Record selection

Record deletion

Record update

Answer Area

Scenario	Trigger
Choose accounts that are in the USA and send those account contacts an email.	Trigger
Contacts that have not been modified in 60 days should no longer be in the system.	Trigger
An area code has been mistyped in all records.	Trigger

Answer:

Triggers

Record creation

Answer Area

Scenario	Trigger
Choose accounts that are in the USA and send those account contacts an email.	Record selection
Contacts that have not been modified in 60 days should no longer be in the system.	Record deletion
An area code has been mistyped in all records.	Record update

QUESTION 35
Drag and Drop Question
A company is creating a new system based on Common Data Service.
You need to select the features that meet the company's requirements.
Which options should you use? To answer, drag the appropriate options to the correct requirements. Each option may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.
NOTE: Each correct selection is worth one point.

Options

connection

one-to-many relationship

many-to-many relationship

self-referential relationship

Answer Area

Requirement	Option
Visualize records as a hierarchy in a model-driven app.	Option
Associate a record with other records in multiple entities.	Option
Records in one entity must be able to reference only a single record in another entity.	Option
Any record in one entity must be able to be referenced by any record in another entity.	Option

Answer:

Options

Answer Area

Requirement	Option
Visualize records as a hierarchy in a model-driven app.	self-referential relationship
Associate a record with other records in multiple entities.	connection
Records in one entity must be able to reference only a single record in another entity.	one-to-many relationship
Any record in one entity must be able to be referenced by any record in another entity.	many-to-many relationship

Explanation:
Box 1: self-referential relationship
Box 2: connection
There are other less formal kinds of relationships between records that are called connections. For example, it may be useful to know if two contacts are married, or perhaps they are friends outside of work, or perhaps a contact used to work for another account. Most businesses won't generate reports using this kind of information or require that it is

entered, so it's probably not worthwhile to create entity relationships.
Box 3: one-to-many relationship
Box 4: many-to-many relationship
Reference:
https://docs.microsoft.com/en-us/powerapps/maker/common-data-service/create-edit-entity-relationships

QUESTION 36
Hotspot Question
You have a model-driven app that uses the Common Data Service (CDS). You create three custom entities that are in many-to-one parental relationships with the Account entity.
You run a real-time workflow that assigns an account you own to another user. You receive the error message as shown in the Error Message exhibit. (Click the Error Message tab.)
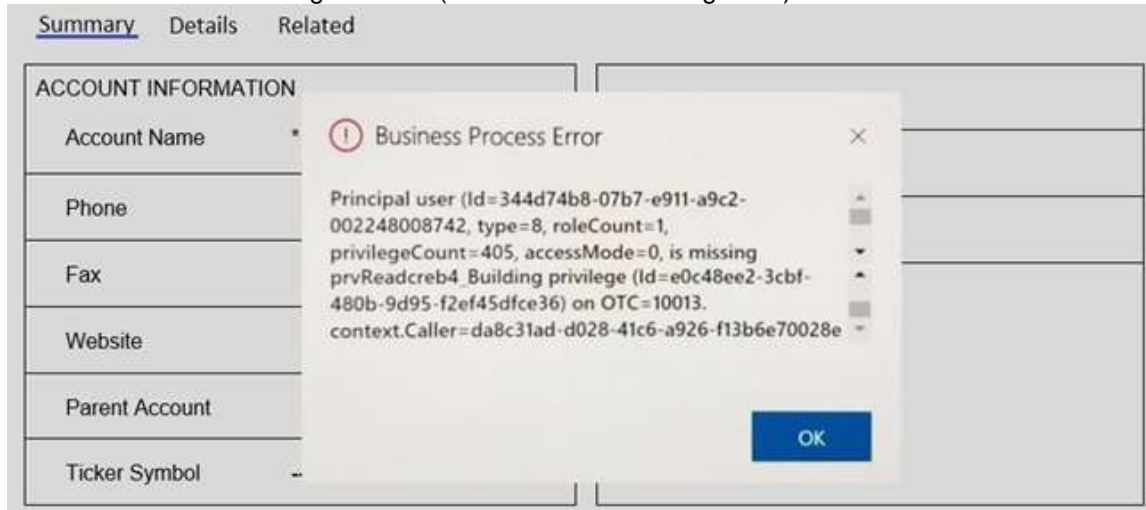
You check the security roles for the user as shown in the Manage User Roles exhibit. (Click the Manage User Roles tab.).

You also check the privileges for that role as shown in the Common Data Service User Security Role exhibit. (Click the Security Role tab.)

Details	Core Records	Service	Business Management	Customization	Missing Entities	Business Process Flows	Custom Entities	

Entity				Create	Read	Write	Delete	Append	Append To	Assign	Share
Account				◔	◔	◔	◔	◔	◔	◔	◔

Details	Core Records	Service	Business Management	Customization	Missing Entities	Business Process Flows	Custom Entities	

Entity				Create	Read	Write	Delete	Append	Append To	Assign	Share
Asset				◔	●	◔	○	○	○	◔	○
Building				○	○	○	○	○	○	○	○
Job				●	●	●	●	●	●	●	●

You need to prevent the error from recurring.
For each of the following statements, select Yes if the statement is true. Otherwise, select No.
NOTE: Each correct selection is worth one point.

Answer Area

Statements	Yes	No
Changing the **Append To** privilege on the Account entity to **Organization** prevents the error from recurring.	○	○
Adding the Environment Maker role to the user prevents the error from recurring.	○	○
Adding the System Customizer role to the user prevents the error from recurring.	○	○
Setting all the privileges for the Building entity to **User** prevents the error from recurring.	○	○

Answer:

Answer Area

Statements	Yes	No
Changing the **Append To** privilege on the Account entity to **Organization** prevents the error from recurring.	○	●
Adding the Environment Maker role to the user prevents the error from recurring.	○	●
Adding the System Customizer role to the user prevents the error from recurring.	●	○
Setting all the privileges for the Building entity to **User** prevents the error from recurring.	●	○

Explanation:
Box 1: No
There is a read error.
Box 2: No
Note: The Environment Maker role can create resources within an environment including apps, connections, custom connectors, gateways, and flows using Power Automate.
Box 3: Yes
The System Customizer role is similar to the System Administrator role which enables non-system administrators to

customize Dynamics 365. A Customizer is a user who customizes entities, attributes and relationships.
Box 4: Yes

QUESTION 37
Hotspot Question
A company delivers packages to businesses and consumers. A custom entity named Package captures the package details.
You need to add the following sets of fields to the entity and leverage the built-in operations of the platform:
- A set of fields to represent the package length, width, depth, and weight. The maximum value for any dimension is 100 centimeters.
- A set of fields for time-sensitive attributes to calculate the efficiency of a delivery based on the existing custom fields: Pickup time and Delivery time. Results of the calculations must be stored as whole numbers.
Which constructs should you use? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.

Answer Area

Requirement	Construct
Calculate the efficiency of the delivery.	▼
	DIFFINMINUTES(Created On, Modified On)
	DIFFINMINUTES(Created On, Delivery Time)
	DIFFINHOURS(Created On, Modified On)
	DIFFINHOURS(Created On, Delivery Time)

Requirement	Construct
Select the data type that has additional transformations applied before the data is displayed.	▼
	Autonumber
	Phone number
	Customer
	Currency
	Duration

Answer:

Answer Area

Requirement	Construct

Calculate the efficiency of the delivery.

▼
DIFFINMINUTES(Created On, Modified On)
DIFFINMINUTES(Created On, Delivery Time)
DIFFINHOURS(Created On, Modified On)
DIFFINHOURS(Created On, Delivery Time)

Select the data type that has additional
transformations applied before the data is displayed.

▼
Autonumber
Phone number
Customer
Currency
Duration

Explanation:
Box 1: DIFFINMINUTES(Created On, Delivery Time)
DIFFINMINUTES (date and time, date and time) returns the difference in minutes between two Date and Time fields as a whole Number
Box 2: Duration
Duration fields can be used to show a whole number as x number of minutes, x number of hours or x number of days instead of just showing the whole number of minutes to the user. Out of the box, CRM activities such as Phone Calls use the Duration field to track the length of time a phone call lasted. For new Phone Call activity records, the Duration field is set to 30 minutes, but the user can update that prior to completing the phone call activity record.
Prior to the user updating the field, they can click on the Optionset arrow and choose a formatted duration.

Duration	30 minutes	∨
	1 minute	
	15 minutes	
	30 minutes	
	45 minutes	
	1 hour	
	1.5 hours	

Reference:
https://docs.microsoft.com/en-us/dynamics365/customerengagement/on-premises/customize/define-calculated-fields
https://www.arbelatech.com/insights/blog/how-to-use-duration-fields-in-dynamics-365-for-sales.html

QUESTION 38
Hotspot Question
You are developing an app for a sales team to record contact details in their Common Data Service (CDS) database.
The app must handle loss of network and save the data to CDS when reconnected.
The main screen of the app has a form to collect contact data and a button. The OnSelect property for the button has the following expression:

```
1. If (
2. Connection.Connected,
3. Path(
4. Contacts,
5. Defaults(Contacts),
6. {
7. 'First Name': DataCardValue_FirstName.Text, 'Last Name': DataCardValue_LastName.Text
8. }
9. );
10. Navigate(ConfirmationScreen,ScreenTransition.Fade)
11. ,
12. ClearCollect(
13. LocalRecord,
14. {
15. 'First Name': DataCardValue_FirstName.Text, 'Last Name': DataCardValue_LastName.Text
16. }
17. );
18. SaveData(LocalRecord, "LocalRecord");
19. Navigate(PendingScreen,ScreenTransition.Fade)
20. )
```

For each of the following statements, select Yes if the statement is true. Otherwise, select No.
NOTE: Each correct selection is worth one point.

Answer Area

Statements	Yes	No
The expression saves the data to CDS when reconnecting after losing network connection.	O	O
The collection contains all contacts not saved to CDS.	O	O
The expression updates existing contacts in CDS.	O	O
The expression handles loss of connection to CDS.	O	O

Answer:

Answer Area

Statements	Yes	No
The expression saves the data to CDS when reconnecting after losing network connection.	O (selected)	O
The collection contains all contacts not saved to CDS.	O	O (selected)
The expression updates existing contacts in CDS.	O	O (selected)
The expression handles loss of connection to CDS.	O (selected)	O

Explanation:

Box 1: Yes
LoadData and SaveData combine to form a simple mechanism to store small amounts of data on a local device. By using these functions, you can add simple offline capabilities to your app.
Box 2: No
Box 3: No
Box 4: Yes
Reference:
https://docs.microsoft.com/en-us/powerapps/maker/canvas-apps/offline-apps

QUESTION 39
Hotspot Question
A company is preparing to go live with their Dynamics 365 Customer Engagement solution, but first they need to migrate data from a legacy system. The company is migrating accounts in batches of 1,000.
When the data is saved to Dynamics 365 Customer Engagement, the IDs for the new accounts must be output to a log file.
You have the following code:

```
1. ExecuteMultipleRequest request = new ExecuteMultipleRequest()
2. {
3.     Settings = new ExecuteMultipleSettings()
4.     {
5.         ContinueOnError = true,
6.         ReturnResponses = false
7.     },
8.     Requests = new OrganizationRequestCollection()
9. };
10. GetAccountData(request.Requests);
11. ExecuteMultipleResponse responseWithResults = (ExecuteMultipleResponse)crmSvc.Execute(request);
12. foreach (var responseItem in responseWithResults.Responses)
13. {
14. …
15. }
```

For each of the following statements, select Yes if the statement is true. Otherwise, select No.
NOTE: Each correct selection is worth one point.

Answer Area

Statements	Yes	No
The developer is able to get access to the newly-created accounts IDs.	○	○
If an error occurs, the developer can get access to the request that caused the fault.	○	○
If there are errors in the requests, the request will raise an exception at the first error and stop processing.	○	○
If there are ten errors in the 1,000 CreateRequest requests, ten responses will be returned from the platform.	○	○

Answer:

Answer Area

Statements	Yes	No
The developer is able to get access to the newly-created accounts IDs.	◉	○
If an error occurs, the developer can get access to the request that caused the fault.	◉	○
If there are errors in the requests, the request will raise an exception at the first error and stop processing.	○	◉
If there are ten errors in the 1,000 CreateRequest requests, ten responses will be returned from the platform.	◉	○

Explanation:
Box 1: Yes
Box 2: Yes
Even when ReturnResponses is false, the Responses collection will not be empty if errors are returned. If errors are returned, there will be one response item in the collection for each processed request that returned a fault and Fault will be set to the actual fault that occurred.
Box 3: No
ContinueOnError, here set to true: when true, continue processing the next request in the collection even if a fault has been returned from processing the current request in the collection. When false, do not continue processing the next request.
Box 4: Yes
Even when ReturnResponses is false, the Responses collection will not be empty if errors are returned. If errors are returned, there will be one response item in the collection for each processed request that returned a fault and Fault will be set to the actual fault that occurred.
Reference:
https://docs.microsoft.com/en-us/powerapps/developer/common-data-service/org-service/execute-multiple-requests

QUESTION 40
Drag and Drop Question
A company creates a custom connector to use in a flow named Search Company.
When this custom connector is used, requests must be redirected to a different endpoint at runtime.
You need to apply a policy to the custom connector to route calls to a different endpoint.
Which three actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Actions	Answer Area
Select the **Search Company** custom connector in the Microsoft Flow portal under Custom connectors and select **edit**.	
Select the Definition tab.	
Select the Security tab.	
Select New Action.	
Select References.	
Select New Policy.	
Select the **Search Company** custom connector in the Microsoft Flow portal under Connections and select **edit**.	

Answer:

Actions

Answer Area

| Select the **Search Company** custom connector in the Microsoft Flow portal under Custom connectors and select **edit**. |
| Select the Definition tab. |

| Select the Security tab. |
| Select New Action. |
| Select References. |

| Select New Policy. |

| Select the **Search Company** custom connector in the Microsoft Flow portal under Connections and select **edit**. |

Explanation:
Step 1: Select the Search Company custom connector in the Microsoft Flow portal under Custom connectors and select edit.
Login to the Microsoft Flow portal, and on right top corner click on the settings icon and then click on custom connectors option.
Step 2: Select the Definition tab
Policy template are available only for custom connectors. To use a policy template, open Power Automate portal and either create a new custom connector or edit an existing one.
1. In the custom connector wizard, select the Definition page.
2. From the Definition page, select New Policy.
3. Etc.
Step 3: Select New Policy
Reference:
https://docs.microsoft.com/en-us/connectors/custom-connectors/policy-templates\