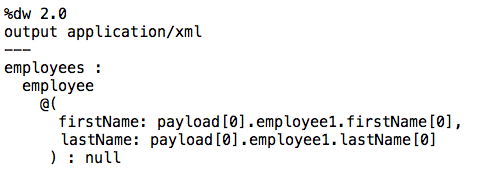
* **Refer to the exhibit. The payload [1,2,3] is passed to the Batch Job scope. In Batch\_Step\_1, a variable named batchStepPayload is set to the current payload. What is the value of the last log message after one batch job completes?**

🡺13

* **Where does a deployed flow designer application run in Anypoint Platform?**

****

🡺 Clouhhub Worker

* **A flow has a JMS Publish consume operation followed by a JMS Publish operation. Both of these operations have the default configurations. Which operation is asynchronous (does not wait for a response before continuing to the next event processor) and which operation is synchronous (blocks and waits for a response or timeout before continuing to the next event processor)?**
* Publish consume: Synchronous. Publish: Asynchronous
* **What is the main purpose of flow designer in Design Center?**
* To design and Develop fully functional Mule applications in a hosted development environment
* **Assume that a database table contains a recordID column that always increases as new records get added to the table. In a Mule application, what is the key process to enable manual watermarking for requests to a database using the Scheduler endpoint and the Database SELECT operation**?
* Save the max recordID from the set of recordIDs in an Object
* **In the Database On Table Row operation, what does the Watermark column enable the On Table Row operation to do?**
* To avoid duplicate processing of records in a database
* **What is a core characteristic of the Modern API?**
* API is designed first using an API specification for rapid feedback
* **According to MuleSoft, what is the Center for Enablement's role in the new IT operating model?**
* Creates and manages assets to be consumed by of business developers
* **What statement is part of Mulesoft's description of an application network?**
* Create reusable APIs and assets designed to be consumed by other business unit
* **What HTTP method in a RESTful web service is typically used to replace a resource completely?**
* PUT
* **Refer to the exhibit. What is the object type returned by the File List operation?**
* Array of Mule event objects
* **Why must a Mule application's deployable archive package all its dependencies in order to be deployed to CloudHub?**
* CloudHub workers CANNOT download ALL possible project dependencies a project may contain
* **A Flow Reference component sends a non-empty JSON object payload to another flow named childFlow, which then returns an XML body. A Flow Reference component saves the payload returned from childFlow to its target attribute named payload. Refer to the exhibit. What is true about the Mule event's payload at the next event processor after the Flow Reference component?**
* The payload is the original JSON object
* **What reserved property can be defined and used in a Mule application to allow an HTTPS Listener to be accessed by external web clients after the Mule application is deployed to CloudHub?**
* https.listener.port}
* **What is the correct way to format the decimal 20.3844 as a string to two decimal places?**
* 20.3844 as String {format: ".0#"}
* **What DataWeave 2.0 type can be used as input to a map operation?**
* Array
* **A Mule application has a main flow and a combineNames flow. In the main flow, a variable named fullName is set to the object {firstName: "Max", lastName: "Mule"}. What is valid DataWeave code to call the combineNames flow with the input object stored in the fullName variable?**
* #[ lookup( "combineNames", vars.fullName ) ]
* **Refer to the exhibit. In the deployable archive's /classes folder, there are two properties files named dev.properties and prod.properties. The Mule application fails to deploy to CloudHub through Runtime Manager with the following error message. What could be causing this error?**
* The env property is NOT set in the Runtime Manager in the Mule application's Properties tab
* **Refer to the exhibit. What is valid DataWeave code to transform the input JSON payload to the output XML payload?**
* 
* **Refer to the exhibit. An event payload contains an unordered array of flight objects, where every object has a price key and a toAirport key. What is valid DataWeave code to return flights with price under 500, grouped by toAirport in ascending order, with the lowest price first?**

Payload filter $.price < 500 orderBy $.price groupBy $.**t**oAirport

* **What MuleSoft API-led connectivity layer is intended to expose part of a backend database without business logic?**
* System
* **Refer to the exhibits. The main flow has an On Error Continue scope with type set to HTTP:NOT\_FOUND. The Mule application configures globalErrorHandler as its default error handler. A web client posts a request to the HTTP Listener. The Transform Message component then throws a MULE:EXPRESSION error trying to convert the payload to application/xml. What response message is returned to the web client?**
* The MULE:EXPRESSION error's message
* **Refer to the exhibits. The main flow has an On Error Continue scope and the private flow has an On Error Propagate scope. A web client makes an HTTP GET request to the HTTP Listener. The Is number validator in the private flow then throws an error with message "Validate - Payload is an Integer". What response message is returned to the web client?**
* Error - main flow
* **Refer to the exhibits. The private flow has an On Error Propagate scope. In the Configuration global element, default error handler is set to globalErrorHandler. A web client makes an HTTP GET request to the flow's HTTP Listener. The Is number validator in the private flow then throws an error with message "Validate - Payload is an Integer". What response message is returned to the web client?**
* GlobalErrorHandler
* **A Mule application has two flows named parentFlow and childFlow. A variable is defined in parentFlow. What is the scope of the variable when the parentFlow calls childFlow using a Flow Reference?**
* The flow variable is accessible in childFlow, can be changed, and changes are seen back in parentFlow
* **A Mule application has a flow named parentFlow. The parentFlow contains an HTTP Request operation at the end of the flow. The parentFlow also contains a Set Variable operation right before the HTTP Request operation. What is the scope of**
* **A Mule application has a flow named parentFlow. The parentFlow contains an HTTP Request operation at the end of the flow. The parentFlow also contains a Set Variable operation right before the HTTP Request operation. What is the scope of the variable to the server receiving the HTTP Request from parentFlow?**
* The variable is NOT accessible in the server
* **Refer to the exhibits. The main flow has an On Error Propagate scope. In the Configuration global element, default error handler is set to globalErrorHandler. A web client makes an HTTP GET request to the flow's HTTP Listener. The Is number validator then throws an error with message "Validate - Payload is an Integer". What response message is returned to the web client?**
* Validate - Payload is an Integer
* **A Mule application has two flows named parentFlow and childFlow. The childFlow begins with an HTTP Listener. A variable is defined in parentFlow, then an HTTP Request is made to childFlow's HTTP Listener with some headers set. What is the scope of the variable and attributes in the parentFlow after childFlow returns a response?**
* The variable is accessible. All the attributes passed to childFlow are removed or replaced
* **Refer to the exhibits. The main flow has an On Error Continue scope. In the Configuration global element, default error handler is set to globalErrorHandler. A web client makes an HTTP GET request to the flow's** HTTP Listener. The Is number validator then throws an error with message "Validate - Payload is an Integer". What response message is returned to the web client?
* Error - main flow
* **What is NOT part of a Mule 4 event?**
* OutboundProperties
* **Refer to the exhibit. What is the correct DataWeave expression for accessing the city Cleveland from the JSON payload?**
* #[payload[1].city]
* **A flow contains an HTTP Listener as the event source. What is the DataWeave expression to log the Content-Type header using a Logger component?**
* #[“Content-Type: “ ++ attributes.headers.’content-type’]
* **Refer to the exhibits. What happens to this flow when the Validation module's Is not null operation throws an error?**
* The flow stops processing its Mule event and returns an error message to the HTTP Listener operation
* **A web service implements an API to handle requests to https://acme.com/customers/{state}. A web client makes a request to this API implementation at https://acme.com/customers/CA. What is the correct DataWeave expression to retrieve the value CA?**
* #[attributes.uriParams.state]
* **What module and operation will throw an error if a Mule event's payload is not a number?**
* Validation module's Is number operation
* **A Set Variable component saves the current payload to a variable with the name images. What is the DataWeave expression to access the images variable?**
* #[vars.images] (vars is a DataWeave predefined variable)
* **An event contains a payload that is an array of Objects. How is the event routed in a Scatter-Gather?**
* The event is SPLIT and different SMALLER events are routed and processed in PARALLEL
* **A Scatter-Gather processes three separate HTTP requests. Each request returns a Mule event with a JSON payload. What is the final output of the Scatter-Gather?**
* An Object containing all three Mule event Objects
* **What happens to the attributes of a Mule event in a flow after an outbound HTTP Request is made?**
* Attributes are replaced with new attributes from the HTTP Request response (which might be null)
* **API Manager has been configured to enforce an SLA policy and the RAML spec has been updated with the required client\_id and client\_secret header requirements. The new RAML spec has been published to Anypoint Exchange. What is the next step to gain access to the API?**
* Request access to the API in Anypoint Exchange
* **What does the Mule runtime use to enforce policies and limit access to APIs?**
* The Mule runtime’s embedded API Gateway

**A company has an API to manage purchase orders, with each record identified by a unique purchase order ID. The API was built with RAML according to MuleSoft best practices.**

**What URI should a web client use to request order P05555**?

A]/orders/{P05555}.

* **A Database On Table Row listener retrieves data from a CUSTOMER table that contains a primary key userjd column and an increasing kxjin\_date\_time column. Neither column allows duplicate values.**
* **How should the listener be configured so it retrieves each row at most one time?**: A]Set the watermark column to the bgin\_date\_time column

.

* **Refer to the exhibits What payload and quantity are logged at the end of the main flow**

ANS: A] [[1,2,3,4], 14]

* **A Mule project contains a DataWeave module called MyModule.dwl that defines a function named formatString. The module is located in the project's src/main/resources/modules folder.**
* **What is the correct way in DataWeave code to import MyModule using a wildcard and then call the module's formatString function?**

ANS:C]

**Refer to the exhibits The Set Payload transformer In the addltem subflow uses DataWeave to create an order object.**

**What is the correct DataWeave code for the Set Payload transformer in the createOrder flow to use the addltem subflow to add a router cable with the price of 100 to the order?**

ANS: Blookupf 'addltem', { payload: { price: '100', item: 'router', itemType: 'cable' } } )

Q6

**What condition requires using a CloudHub Dedicated Load Balancer?**

ANS When custom DNS names are required for API implementations deployed to customer-hosted Mule runtimes

Q7

**When designing an upstream API and its implementation, the development team has been advised to not set timeouts when invoking downstream API. Because the downstream API has no SLA that can be relied upon. This is the only donwstream API dependency of that upstream API. Assume the downstream API runs uninterrupted without crashing. What is the impact of this advice?**

ANS: A default timeout of 500 ms will automatically be applied by the Mule runtime in which the upstream API implementation executes.

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**An API has been updated in Anypoint Exchange by its API producer from version 3.1.1 to 3.2.0 following accepted semantic versioning practices and the changes have been communicated via the API's public portal. The API endpoint does NOT change in the new version. How should the developer of an API client respond to this change?**

ANS: The API client code ONLY needs to be changed if it needs to take advantage of new features.

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**A new upstream API Is being designed to offer an SLA of 500 ms median and 800 ms maximum (99th percentile) response time. The corresponding API implementation needs to sequentially invoke 3 downstream APIs of very similar complexity. The first of these downstream APIs offers the following SLA for its response time: median: 100 ms, 80th percentile: 500 ms, 95th percentile: 1000 ms. If possible, how can a timeout be set in the upstream API for the invocation of the first downstream API to meet the new upstream API's desired SLA?**

ANS: No timeout is possible to meet the upstream API's desired SLA; a different SLA must be negotiated with the first downstream API or invoke an alternative API

Q10

**An organization has several APIs that accept JSON data over HTTP POST. The APIs are all publicly available and are associated with several mobile applications and web applications. The organization does NOT want to use any authentication or compliance policies for these APIs, but at the same time, is worried that some bad actor could send payloads that could somehow compromise the applications or servers running the API implementations. What out-of-the-box Anypoint Platform policy can address exposure to this threat?**

ANS: Apply an IP blacklist policy to all APIs; the blacklist will Include all bad actors

Q11

**An organization is implementing a Quote of the Day API that caches today's quote.** **What scenario can use the CloudHub Object Store connector to persist the cache's state?**

ANS: When there is one deployment of the API implementation to CloudHub and another one to customer hosted mule runtime that must share the cache state.

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**An organization is evaluating using the CloudHub shared Load Balancer (SLB) vs creating a CloudHub dedicated load balancer (DLB). They are evaluating how this choice affects the various types of certificates used by CloudHub deployed Mule applications, including MuleSoft-provided, customer-provided, or Mule application-provided certificates. What type of restrictions exist on the types of** **certificates for the service that can be exposed by the CloudHub Shared Load Balancer (SLB) to external web clients over the public internet?**

ANS: Only MuleSoft provided certificates can be used for server side certificate

Q13

**Refer to the exhibit. What are the values of the counter and stepVar variables in the On Complete phase?**

ANS: Counter: 1, stepVar: null

Q14 **What MuleSoft product enables publishing, sharing, and searching of APIs?**

ANS: Anypoint Exchange

Q15

**Refer to the exhibit. What are the values of the counter and stepVar variables after the Batch Job?**

ANS: Counter: 1, stepVar: null

Q16

**A Batch Job scope has three batch steps. An event processor in the second batch step throws an error because the input data is incomplete. What is the default behavior of the batch job after the error is thrown?**

ANS: What MuleSoft product enables publishing, sharing, and searching of APIs?

The second batch step is retried

Q17

**Refer to the exhibits. What is the output of the Logger component in the Batch Job?**

ANS: [.333, 1]

Q18

**In a RAML specification, what attribute defines a query parameter to be optional for a resource?**

ANS: Required: false

**Q19 What is NOT part of a Mule 3 message?**

ANS: Variables

Q19

**What out-of-the-box policy can safeguard against Denial of Service type attacks?**

ANS: Rate limiting

Q20

**A Mule application properties file named training-DEVproperties has been defined. How is the properties file referenced in the Mule application**?

ANS: In a Property Placeholder element

**Q21 What port number is used to expose the domain URL of a Mule application deployed to CloudHub?**

ANS:80

**Q22 What message processor can set the HTTP response status code to 200?**

ANS: Property

Q23

**What property of a Mule message is immutable?**

ANS: InboundProperties

Q24

**A Mule application has two flows named parentFlow and childFlow. A variable is defined in parentFlow. What is true for a Mule subflow?**

ANS: An external client can send messages directly to it

**Q25 What is the default processing strategy of a one-way flow?**

ANS: Queued-thread-per-processor

Q26

**What is the default processing strategy of a one-way flow?**

**Whatis required for two Mule applications to share data using a VM connector component?**

ANS: Put the Mule applications in the same non-default Mule domain

Q27

**How are outbound properties automatically passed to an outbound REST request using an HTTP Request component?**

ANS: As headers

Q28

**A WSDL defines a conversionRate operation with an input message that requires two parts: fromCurrency and toCurrency. How are fromCurrency and toCurrency set in the flow in order to call the conversionRate operation using a Web Service Consumer component?**

ANS: In the message payload

Q29

**What is NOT a way to pass data to a RESTful web service in a flow using an outbound HTTP Request component?**

ANS: Set inbound properties before the HTTP Request component

Q30

**What asset can NOT be created using Anypoint Platform Design Center?**

ANS: API portals

**Q30 An exception is caught by a choice exception strategy. How is the exception routed?**

ANS: To the first excePtion strategy whose condition evaluates to true

Q31

**How is a default exception strategy set in a Mule application?**

ANS:

Q32

**A Payload filter is configured to test for type javalang\_String. What happens when the filter is passed a message with the payload null?**

ANS: The message is passed to subsequent message processors

Q33

**What module and operation will throw an exception if a Mule event's payload is not a number?**

ANS: Validation module’s Is number operation

Q34

**A Mule flow has a JMS queue listener as the message source. Where can the next message processor access a JMS messages header?**

Inbound property

**Q35**

**What part of a Mule flow can contain a Poll scope?**

ANS: Message source

Q36

**How is a Poll scope's watermark accessed from a message processor in a flow?**

ANS: In a flow variable

Q37

**A File connector configured to read files from a /mule/input directory. All other File connector settings are the default settings. What happens to a file after it is processed by the File connector?**

ANS: The file is deleted from the input directory, but is not moved anywhere

**Q38**

**What phase of a batch job using a Batch scope must contain at least one message processor?**

ANS: Process Records

**Q39 A message payload is modified using a Message Enricher scope with an empty target. What is true about the message payload that leaves the Message Enricher scope?**

ANS: The modified payload is stored as an outbound property

**Q40 A Batch scope has three batch steps. A message**

**processor in the second batch step throws an exception because the input data is incomplete. What is the default behavior after the exception is thrown?**

ANS: Stops processing the entire batch job

**Q41**

**What is the purpose of the api:router element in APIkit?**

ANS: Validates requests against RAML API specifications and routes them to API implementations

**Q42**

**What is the scope of a record variable in a Batch scope?**

ANS: In all batch steps, but not in the On Complete phase

Q43

**A web client submits a GET request to a Mule 4 application to the endpoint /customers?id=48493. Where is the id stored in the Mule event by the HTTP Listener?**

ANS: Attributes

Q44

Assume that a database table contains a record ID column that always increases as new records get added to the table. In a Mule application, what is the key process to enable manual watermarking for requests to a database using the Scheduler endpoint and the Database SELECT operation?

ANS: Save the max recordID from the set of recordIDs in an ObjectStore and reference this record in subsequent database requests

Q45

How is the success of a Center for enablement measured?

ANS: Measured on asset consumption

Q46 What are four ways APIs provide the info for how to communicate with a software component?

ANS:

Q47 This defines what you can call, what you send it, and what you get back:

ANS: Web Service

Q48 An API has been created in Design Center. What is the next step to make the API discoverable?

ANS: Publish the API to Anypoint Exchange

Q49

What is an application that controls access to a web service, restricting access and usage with an API gateway?

ANS: API Proxy

Q50

What is the actual implementation you can make calls to or the interface of that API implementation?

ANS:

Q51

How are SOAP web services defined?

ANS: In an XML-based WSDL (Web Services Description Language file

Q52

In what file does the Mule project keep track of all of its dependencies?

ANS: Pom.xml

Q53 What do RESTful web services use?

ANS: Existing HTTP communication protocol

Q54

What is the minimum required configuration in a flow for a Mule application to compile?

ANS: An event/message processor in the Source section of a flow

Q55

What can ONLY be done with VM connectors, and NOT with Flow References, in a single Mule application?

ANS: Allow a flow to pass events to another flow asynchronously

Q56

Which RESTful web service request method partially updates a resource?

ANS: PATCH

Q57

Which RESTful web service request method creates a new resource?

ANS: PUT

Q58

An inbound Database connector is configured to select rows from a MySQL database. What is the format of results returned from the database query?

ANS: JAVA

Q59

Which RESTful web service request method deletes a resource?

ANS: DELETE

Q60 What is NOT part of a Mule 4 event?

ANS: ATRIBUTE

Q61

What file type is required to configure a Web Service Consumer to consume a SOAP web service?

ANS: WSDL

Q62 How does APIkit determine the number of flows to generate from a RAML specification?

ANS: Creates a separate flow for each HTTP method

Q63 How are query parameters dynamically passed to an outbound REST request using an HTTP Request operation?

ANS: As query parameters in the HTTP Request operation

Q64 What is the purpose of API autodiscovery?

ANS: Allows a deployed Mule application to connect with API Manager to download policies and act as its own API proxy

1. Q65 Refer to the exhibit:

#%RAML 1.0 title: ACME Medical API baseUri: https://dev.acme.com/api /patients: GET: queryParameters: year: type: integer example: 2017 What is the correct URL to perform a GET request to /patients?

ANS:

Refer to the exhibit. The payload [1,2,3] is passed to the Batch Job scope. In Batch\_Step\_1, a variable named batchStepPayload is set to the current payload. What is the value of the last log message after one batch job completes?

Q1.

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What URI should a web client use to request order P05555?

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How should the listener be configured so it retrieves each row at most one time?

ANS: A]Set the watermark column to the bgin\_date\_time column

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Refer to the exhibits What payload and quantity are logged at the end of the main flow

ANS: A] [[1,2,3,4], 14]

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A Mule project contains a DataWeave module called MyModule.dwl that defines a function named formatString. The module is located in the project's src/main/resources/modules folder.

What is the correct way in DataWeave code to import MyModule using a wildcard and then call the module's formatString function?

ANS:C]

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Refer to the exhibits The Set Payload transformer In the addltem subflow uses DataWeave to create an order object.

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ANS: In all batch steps, but not in the On Complete phase

Q43

A web client submits a GET request to a Mule 4 application to the endpoint /customers?id=48493. Where is the id stored in the Mule event by the HTTP Listener?

ANS: Attributes

Q44

Assume that a database table contains a record ID column that always increases as new records get added to the table. In a Mule application, what is the key process to enable manual watermarking for requests to a database using the Scheduler endpoint and the Database SELECT operation?

ANS: Save the max recordID from the set of recordIDs in an ObjectStore and reference this record in subsequent database requests

Q45

How is the success of a Center for enablement measured?

ANS: Measured on asset consumption

Q46 What are four ways APIs provide the info for how to communicate with a software component?

ANS:

Q47 This defines what you can call, what you send it, and what you get back:

ANS: Web Service

Q48 An API has been created in Design Center. What is the next step to make the API discoverable?

ANS: Publish the API to Anypoint Exchange

Q49

What is an application that controls access to a web service, restricting access and usage with an API gateway?

ANS: API Proxy

Q50

What is the actual implementation you can make calls to or the interface of that API implementation?

ANS:

Q51

How are SOAP web services defined?

ANS: In an XML-based WSDL (Web Services Description Language file

Q52

In what file does the Mule project keep track of all of its dependencies?

ANS: Pom.xml

Q53 What do RESTful web services use?

ANS: Existing HTTP communication protocol

Q54

What is the minimum required configuration in a flow for a Mule application to compile?

ANS: An event/message processor in the Source section of a flow

Q55

What can ONLY be done with VM connectors, and NOT with Flow References, in a single Mule application?

ANS: Allow a flow to pass events to another flow asynchronously

Q56

Which RESTful web service request method partially updates a resource?

ANS: PATCH

Q57

Which RESTful web service request method creates a new resource?

ANS: PUT

Q58

An inbound Database connector is configured to select rows from a MySQL database. What is the format of results returned from the database query?

ANS: JAVA

Q59

Which RESTful web service request method deletes a resource?

ANS: DELETE

Q60 What is NOT part of a Mule 4 event?

ANS: ATRIBUTE

Q61

What file type is required to configure a Web Service Consumer to consume a SOAP web service?

ANS: WSDL

Q62 How does APIkit determine the number of flows to generate from a RAML specification?

ANS: Creates a separate flow for each HTTP method

Q63 How are query parameters dynamically passed to an outbound REST request using an HTTP Request operation?

ANS: As query parameters in the HTTP Request operation

Q64 What is the purpose of API autodiscovery?

ANS: Allows a deployed Mule application to connect with API Manager to download policies and act as its own API proxy

1. Q65 Refer to the exhibit:

#%RAML 1.0 title: ACME Medical API baseUri: https://dev.acme.com/api /patients: GET: queryParameters: year: type: integer example: 2017 What is the correct URL to perform a GET request to /patients?

ANS:

Refer to the exhibit. The payload [1,2,3] is passed to the Batch Job scope. In Batch\_Step\_1, a variable named batchStepPayload is set to the current payload. What is the value of the last log message after one batch job completes?