**1-1– Introduction to Variables**

**Question 1**: A variable in Qlik Sense is a named entity, containing a data value. You can assign a specific fixed value to it, or make it dynamic using an expression. When a variable is used in an expression, it is substituted by its value or the variable's definition. True or False.

**Answer**: True

**Question 2**: By default, Qlik has four listed variables. Which of the following is not listed as a default variable?

1. Name
2. Index
3. CurrentName
4. Matches
5. All are defaults

**Answer**: E - All are defaults

**Question 3:** Qlik has several guidelines/best practices when choosing a variable name, which is important to remember during variable creation as a name cannot be changed once its created. The following are all guidelines except which one?

1. Use a letter as the first character, do not use a number or a symbol. For the earlier example, we’ve used the small letter “v” as the first character to easily distinguish variables from fields.
2. It is not recommended to name a variable identically to a field or a function in Qlik Sense.
3. Do not use the following characters when naming a variable: $ ( ) [ ].
4. The name must be unique. You cannot name a variable using a name used for a reserved variable or a system variable. These variables are not listed in the variables dialog, but if you are not allowed to use a certain name, even though you cannot find a duplicate in the variables dialog, a reserved variable or a system variable already has this name.
5. A long name is recommended to ensure clarity.

**Answer**: E – A long name is not recommended. If a variable's name is too long, the name cannot be fully displayed in the variables overview.

**Question 4**: To create a variable in the data load editor, you need to insert a prefix of either SET or LET before the variable name.

True or False: The Let statement evaluates an expression to the right of the equal sign at script run time and assigns the result of the expression to the variable.

**Answer:** True

**Question 5**: This type of variable is used to tell Qlik Sense how to handle certain data values, such as null values. A few examples are NullDisplay, NullValue, and NullInterpret.

1. System variable
2. Value handling variable
3. User-defined variable

**Answer**: B - Value handling variable

**Question 6**: True or False: In order to properly delete a variable, we need to remove it from the script or the backend, as well as the front end or the variable dialog.

**Answer** : True

**1-2– Uses of Variables**

**Question 7**: True or False: Variables can be utilized to store a line of information, may it be a fixed value, a set of concatenated characters but not an expression.

**Answer**: False – variables can contain values derived from expressions.

**Question 8**: Variable input control is an extension included on the Dashboard bundle of Qlik Sense which lets users set the value of a variable. The variable input control can be displayed as:

1. A button
2. A dropdown
3. An input box
4. A slider
5. All of the above

**Answer**: E - All of the above

**1-3–Dynamic Loading P1**

**Question 9**: True or False: An **incremental load** is applied when both new and old records are retrieved from the database.

**Answer**: False. Incremental Load takes old records from a local storage or QVD file.

The following questions will be about the incremental loading process, of which there are the following four types:

1. **Append only**
2. **Insert only**
3. **Insert and update**
4. **Insert, update, and delete.**

**Question** **10**: This process is used when the data resides in a database other than a simple log file.

**Answer:** B — Insert only

**Question 11**: The \_\_\_\_\_\_\_\_\_\_\_ process is applicable when data in previously loaded records may have changed between script executions. You can use this for data that needs updating but has no deletion such as customer records.

**Answer**: C – Insert and update

**Question 12**:

This process is used when records are only altered and never deleted. The simplest example would be log files where we simply add new records but are not removing, updating nor deleting other historical data.

**Answer**: A - Append only

**Question 13**: True or false

QVD (QlikView Data) file is a file containing a table of data exported from Qlik Sense.

**Answer**: True

**1-4–Dynamic Loading P2**

**Question 14**: True or False: To create the Insert & Update type of incremental load, we need to have a database source, a modification time field, a primary key field to recognize which records are new, and finally a QVD to serve as data storage.

**Answer**: True

**1-5–Script Files & Subroutines**

**Question 15**: Subroutines are conceptually similar to script files but have a subtle difference in usage as they contain re-usable calculations or expressions which can be called in the script multiple times.

**Answer**: True

**1-6–Advanced Script Functions**

**Question 16**:True or False: Match & Pick are both case sensitive.

**Answer**: True

**Question 17** : Which script function is case-insensitive and can compare the first parameter with all the following ones? It also returns the numeric location of the expressions that match.

1. Match
2. Pick
3. Mix Match
4. Wild Match
5. None of the above

**Answer**: C – Mix Match

**Question 18** : Which script function is case sensitive and returns the nth expression in a specified list?

1. Match
2. Pick
3. Mix Match
4. Wild Match
5. None of the above

**Answer**: B - Pick

**2-1– Alternate States**

**Question 19:**

All but one of the following are limitations when naming alternate states:

1. Do not use $, 0, or 1 as a state name.
2. Do not use a state name starting with $ or $\_ followed by a number, for example, $3.
3. Do not use a state name already used as a bookmark name.
4. Do not use a “v” character before any state name.
5. All of the above are limitations.

**Answer**: D – Do not use a “v” character before any state name.

**Question 20:**

Which of the following is NOT a proper use of alternate states?

1. Applying a state to the visualization.
2. Creating comparative analysis.
3. Using states in the set expression of a measure.
4. Creating filters for a sheet.

**Answer**: D – Creating filters for a sheet.

**2-2– Customizing Dashboards using CSS**

**Question 21**: True or False: Qlik Sense supports the use of CSS in apps which do not require you to learn any CSS coding.

**Answer**: False – You need to know the basics of how CSS works to code it into Qlik Sense.

The Qlik Sense app supports two basic types of CSS: Inline where code is written into the tag and is only affecting the tag in which they are applied to and **External**, where code is created in a separate document and attached to the visualization.

There are three types of CSS implementation in Qlik Sense:

1. Theme
2. Sheet
3. Object

**Question 22**: Which type of CSS Qlik Sense implementation completes the following sentence:

When adding CSS via \_\_\_\_\_\_\_\_\_\_, a helper object is required. This object holds and injects the CSS definition as soon as it's loaded. When the user changes the sheet the CSS definition disappears. Using this method, you can also apply specific object definitions such as pivot headers. Just make sure not to accidentally delete the helper object as it will remove the applied CSS definitions.

**Answer**: B. Sheet

**Question 21**: Which type of CSS Qlik Sense implementation completes the following sentence:

When using the \_\_\_\_\_\_\_\_\_\_\_to apply CSS, you can create a “.css” file and upload it to the app through Qlik Sense Management Console. This is an external type of CSS wherein definitions are placed in a separate document.

**Answer**: A. Theme

**Question 22**:

True or False: A custom theme is a collection of files stored in a folder. It must contain a definition (QEXT) file, the main JSON file, and optionally any other assets you might need to support the custom theme, such as CSS files, custom font files, and images.

**Answer**: True

**Question 23**:

True or False: Regarding Layout and Properties section of the developer menu, Layout contains the default configurations for the selected object, while Properties contain the configurations for the current instance.

**Answer**: False -Properties contain the default configurations for the selected object, while Layout contain case-sensitives the configurations for the current instance.

**2-3– Using Geoanalytics for spatial data**

The overall principle for GeoAnalytics is that the map and the various layers are separated in different components. There are several different layer components for different kinds of visualizations:

1. Bubble Layer
2. Line Layer
3. Area Layer
4. Heatmap Layer
5. Geodata Layer

Answer the following questions using the five types of layers above.

**Question 24**:

\_\_\_\_\_\_\_\_\_ visualizes background map data, either from a tile service or from a file, such as GeoJSON. The URL is an expression that is evaluated at each selection and data is reloaded when the URL changes. This way it can connect to external data services with dynamic data.

**Answer**: E - Geodata Layer

**Question 25**:

\_\_\_\_\_\_\_\_\_\_ symbols on points which can be colored and scaled by measures, also custom symbols and rotation is supported.

**Answer**: A - Bubble Layer

**Question 26**:

\_\_\_\_\_\_\_\_\_\_ displays lines either from a start point to an end point or from geometries with breakpoints. Measures can control color and line width. Optionally lines can have arrows and be curved.

**Answer**: B - Line Layer

**Question 27**:

\_\_\_\_\_\_\_\_\_\_\_\_ displays point density with a color scale. Each point contributes to the intensity within a certain influence radius with a value that can come from a measure.

**Answer**: D - Heatmap Layer

**Question 28**:

\_\_\_\_\_\_\_\_\_\_\_\_ shows areas in colors controlled by measures.

**Answer**:C - Area Layer

The Qlik GeoAnalytics Connector provides a toolbox of functions for geographic analysis in Qlik. It enables you to transform your data through geometric operations, aggregating operations, route-based operations, and lookup operations.

**Question 29**: True or False: Binning generates rectangular or hexagonal bins for a point dataset.

**Answer**: True

**Question 30**: Qlik Geoanalytics Bundle comes built in when you install the Qlik Sense Enterprise.

**Answer**: False. You need to buy it separately or have it included in your quote.