1. You have a detect changes component as part of your transformation job. You have defined the field for the 'match keys' property. You notice you have null values in this field. What will happen when you execute the job?
**Ans. NULL values will be ignored**

2. What happens when you use the calculator component to add a new column with the same name as an existing column?
Ans: **It will overwrite the existing column with the same name**

3. What component do you use the start a new explicit transaction?
Ans. **Use the Begin component**

4. Environment variables can be shared between multiple jobs?
a. **True (true)**
b. False

5. You can perform a ___ to undo all the changes made since 'Begin'
a. **RollBack (correct)**
b. Undo
c. Start

6. Which of the following statements is true?
a. **If you use transaction statements in a script Matillion ETL will not be aware of the changes in transaction behaviour. (correct)**
b. If you use transaction statements in a script Matillion ETL will be aware of the changes in transaction behaviour.
c. Matillion Will allow you to use transaction components available out of the box in both orchestration and transformation.
d. Matillion will not allow you to add transaction statements in a script.

7. Schedules can be applied to the following jobs?
a. **Orchestration (correct)**
b. Orchestration and Transfomation
c. Transformation

SQl scripts can be used in both transformations and orchestrations. What SQL statement cannot be used in Orchestrations?
a. **Select (correct)**
b. Update
c. Truncate
d. Create

8. A user combines the data from two tables using a 'Unite' component. Table 1 has an extra column 'date' that Table 2 does not have. What values will the rows from table 2 be assigned for column 'date'?

    a. <mark>**Null (correct)**</mark>
    b. Empty String
    c. EMPTY
    d. 0

9. The image below shows sample airport data

| iata | airport | city | state | country |
|------|---------|------|-------|---------|
| 00R | Livingston Municipal | Livingston | TX | USA |
| 01G | Perry-Warsaw | Perry | NY | USA |
| 01M | Tishomingo County | Belmont | MS | USA |
| 02C | Capitol | Brookfield | WI | USA |
| 03D | Memphis Memorial | Memphis | MO | USA |
| 04Y | Hawley Municipal | Hawley | MN | USA |

If the map component below is used to generate a new column 'Flag', which states will have a value of true?

**Value Map**

| Input Column | Qualifier | Comparator | Comparison Value | Then Value |
|--------------|-----------|------------|------------------|------------|
| state | Is | Like | M% | true |

☐ Use Grid Variable     ☐ Text Mode

**OK** **Cancel**

    a. <mark>**MO,MN,MS (correct)**</mark>
    b. MO,MS
    c. MO,MN
    d. MO

10. While Matillion is known as an 'ETL' product, it functions more as an 'ELT' tool. What is a benefit of ELT over ETL?
    a. ELT transforms data before its loaded into the data warehouse which speeds up Matillion performance
    b. ELT allows more data to be loaded into the data warehouse
    c. Transformations use the full capacity of Matillions computing power.
    d. <mark>**Transformations can utilize the power of the underlying cloud data warehouse (correct)**</mark>

11. What component can be used to iterator over a collection of files?
A. Grid Iterator
B. Fixed iterator

**C.** **File iterator (Correct)**

D. Loop iterator

12. What is the fixed flow component used for?

**a.** **Generate lines of fixed input data (correct)**

b. None of the options listed are correct

c. Acts as a flow control during runtime

d. Prevents overlap of data during runtime

13. What following is not a valid interpreter for a python script component

a. Python3

**b.** **Python (correct)**

c. Jython

d. Python2

14.  Which of the following statements about groups and Projects is false?
  a. Environment Variable Can have different values in different projects.
  **b.** **Project must exist within a group and there must not be atleast one project one group**
  c. Environment variable can shared between projects.
  d. Some Matillion configuration is instance wise and independent of Groups And Projects.

15. A user wants to rank flight data by airtime using the rank component. If two or more rows tie, the user wants no gap in the sequence of ranked values. Which window function is the most appropriate?

**a.** **Dense Rank (correct)**

b. Percent Rank

c. Row Number

d. Rank

16. You cannot reference environment variables in a calculator component" – True or False?

a. True

**b.** **False (correct)**

17. The export Tab Of an API Query can be used to?
  **a.** **Save The row count into a variable. (correct)**
  b. Export JSON Data into ORC, AVRO or Parquet Formatted Files
  c. Choose The target table name for the exported data
  d. None of the above

18.  Which component can add rows to existing columns, but doesn't add columns to the grid.
  a. Alter Table
  b. Table Metadata To Grid

    **c. Append To Grid (correct)**
    d. Truncate Table

19. When Orchestration Jobs are run, individual tasks are created 'on the fly' as the decision points are reached in the orchestration such as ifs, loops, ands and ors. Where can this information be monitored.
    a. Task Info Screen
    b. Environment Panel
    c. **On the Canvas screen** (correct)
    d. Components Panel

20. What is the Main difference between the Rewrite Table Components and the Table Output Components in Transformation Jobs?
a. The Rewrite Table Components doesn't add data into a table
b. The Rewrite Table Components is used just for updating columns
c. The Rewrite Table Component doesn't require an existing table
**d. The Rewrite Table Component requires an existing table. (correct)**

21. Which statement of 'Create If Not Exist' Property is true Create Table Command?
a. This option will destroy existing data
**b. This option will only create a new table when a table of the same name does not already exist. (correct)**
c. This option will create a new table when a table of the same name does exist

22. Which type is suitable for data that is either "true" or "false"
**a. Bollean (correct)**
b. Float
c. Varchar
d. Unique

23. How Many primary key a user have per table.?
24. Most data stagers tend to work in the same way: you enter relevant credentials to access the service ,and opt to use either a ___ or ___mode for your queries.
a. Standard and Basic
**b. Basic and Advanced (correct)**
c. Standard and Advance

25. You wish to prevent users from making change to a particular project version. How best do you do this?
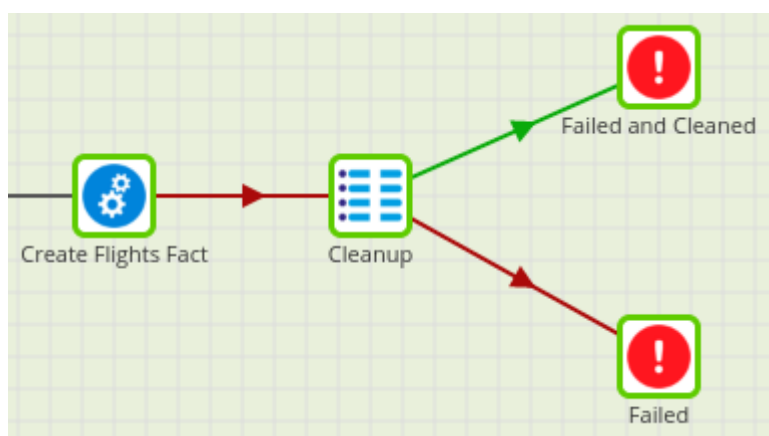    a. Export The project in full and keep it safe incase you to need to restore it again.
    **b. Create a new version of the project and lock the status of the original version (correct)**

c. You can not do this is matillion, only in github.

26. Which is the best component to use if you need to copy files between different cloud provider buckets?
    a. Replication
    b. Bulk Copy
    **c. Data Tranfer (correct)**
    d. Bucket Copy

27. If you wish to write your own SQL Script in an Orchestration job which component should you use?
    a. SQL
    **b. SQL Script (correct)**
    c. Custom Script

28. What does the Search tab do?
    **a. Searches for all jobs, component properties and jobs. (correct)**
    b. Searches only notes.
    c. It doesn't exist
    d. Allow you to search for log for component failure

29. In the example below, if the Create Flights Fact job fails, a cleanup action is run. Even if the Cleanup action is successful, we still want to mark the job as having failed. Because the failure of Create Flights Fact has been 'handled' by the cleanup, without an additional link to mark the overall job as having failed, the job will end with a (1)_____ state (assuming the cleanup action was (2)_____).

**a. Success and Failure (correct)**
b. Failed And Failure
c. Success And Successful
d. Failed And Sucessful

30. How do you reference an environment variable?
**a. ${variable_name} (correct)**
b. %{variable_name}
c. *{variable_name]
d. #{variable_name}

31. You cannot define multiple schedules per project
a. True
**b. False (correct)**

32. Environment variables can have different default values set for each environment?
    a. False
    **b. True (correct)**

33. By default what component is placed on the canvas by Matillion when creating a new Orchestration job?
a. Start
**b. Begin (correct)**
c. Failure
d. Success
e. Execute

34. The behaviour of environment variables can be copied or shared. What behaviour would you use when multiple jobs need to update the value of the variable in other branches?
a. Shared
**b. Copied (correct)**

35. How many projects are you allowed to have?
a. 10
b. Unlimited
c. 2
**d. 1**(correct)

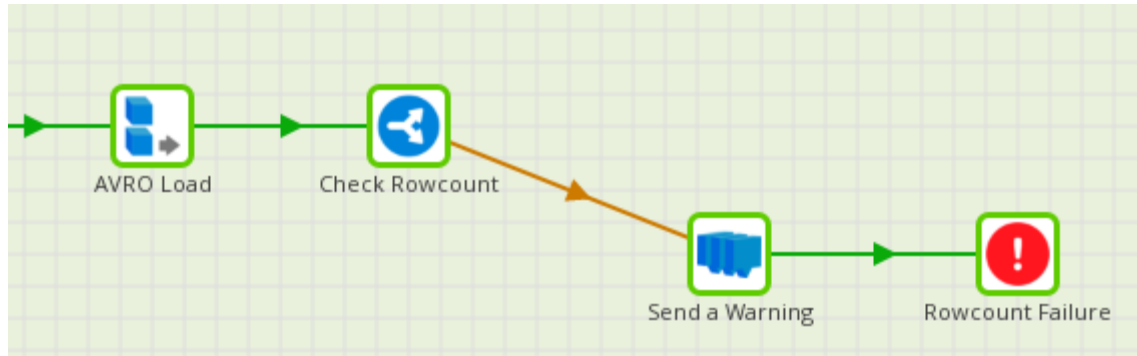36. What component should you use to translate codes to a more human readable name?
a. Rename
b. Replicate
**c. map values (correct)**

37. This example below loads data from S3 and checks that at least 1,000 rows were loaded. We define an expression that tests whether the number of loaded rows is

greater than 1,000, and when this is false, an alert is sent via SNS (and the job is marked as failed).



Which component do we use to check the row count?
 a. split component
 b. filter component
 c. Loop component
 **d. if component (correct)**

38. In an orchestration job, a user need to iterate between two numeric values that contains a function that relies on the current value to do something (avoiding the creation of several individual jobs). The user wants to use a component that contains the starting value, the end value and the increment value out of the box in the component's properties. Which of the following could be used to tackle this problem.

 a. The File Iterator
 **b. The Loop Iterator (correct)**
 c. The fixed Iterator
 d. The Grid Iterator

39. Which of the following components can effectively helps you to unpivot your data into transformation job?
 a. The Map values Component
 b. The Filter Component
 c. The Rank Component
 d. The Transpose Column Component (correct)

40. In an Orchestration Job, The iterate and Retry component has outputs identified by green,black, red and blue. What are these Outputs?
 a. Positive, Maybe, Negative , Iterate
 b. Yes, Always, No, Forward
 c. True, False, Failue and Ahead
 **d. Success, Unconditional, Failure And Iterate (correct)**

41. While editing an orchestration job. _____
a. Nobody else can see your changes if they are editing the same job at the same time.
b. You will never get a sample of your data
c. You can validate and run your job against any environment (correct)
d. All of the above

42. Which of the following Matillion ETL Features have an instance scope rather than a project scope?
a. API Profiles.
b. Open ID User Configurations
c. Shared Jobs
**d. All of the above  (correct)**

43. The type of the target variable (String, Integer, DateTime) need not to be match the type of the source variable given in the table.Runtime information exported to job variables is only available while the job is running, and is no longer available after the job finishes running.
a. True
**b. False (Correct)**

44. When an environment variable is exported or imported, it is only the name of the variable that is exported/imported, not the value of the variable.
a. False
**b. True (Correct)**

45. Only administrators will be able to view and access this menu.
For users running HA (Clustered) instances, some options may be unavailable—namely, User Configuration as LDAP is used by default, and Restart Server and Manage Backups as there is no single machine to restart or backup.
For any changes made within administrative tools to take effect, the server must be restarted. However, doing this will disconnect any connected client sessions and abort any currently running jobs.

**a. True (Correct)**
b. False

46. As orchestration tasks are calculated on the fly, all future tasks may be listed, however they will be appended to the list as tasks complete.
a. True
**b. False (Correct)**

47. What would happen if a Matillion job that contained a job variable and grid variable of the same name was run?
a. The job would fail as it cannot execute with a job variable and grid variable with the same name

b.  **The job variable would override any value in the environment variable (Correct)**
c.  The environment variable will override any value in the job variable
d.  The values of the job and environment variables would be combined

48. In transformation jobs, which similarity has the fixed flow component and the generate sequence component?
a.  Both are used to create job variable
b.  Both are used for deleting data
c.  **Both can be used for simple static mappings (correct)**
d.  Both can be used for simple dynamic mappings

49. In advanced mode an API Query Component can?
a.  Access and flatten semistructured data using a sql like language
b.  Automatically make repeated calls to APIs which require staging
c.  **Neither a nor b (correct)**
d.  Both a and b

50. What is the behaviour of the red connector ring?
A.  Continue on to the next component if executed successfully
B.  Continue on to the next component regardless of success or failure
C.  **Continue on to the next component if failed to execute (correct)**