**Max Marks:15 Time: 3 hours**

**Module-4: Lab Assessment (Data Engineering)**

**Attempt any 3 questions.**

1. What is **Azure Data Factory**? Ingest the data from Azure Blob storage to a database in Azure SQL Database by using Azure Data Factory.

2. What is **event hub**? Ingest the data and process it using event hub.

3. Generate a sample report using **Power BI** by using the data from website <https://www.bankrate.com/retirement/best-and-worst-states-for-retirement/> and create the visualization to

* Show the names of the top 10 weather states for **Affordability**and**Overall ranking.**
* Show best states for sunglass sales.

You can use <https://docs.microsoft.com/en-us/power-bi/fundamentals/desktop-getting-started> for reference.

4. What is Azure **Synapse analytics**? Create Synapse analytics workspace, analyse the data using serverless spark pool and setup a pipeline to monitor.