**For PowerBI - create test of 25 questions (2 marks) each and I have provided some scenario-based question on which has dataset link with it. Give student one scenario-based questions for 25 marks and ask them to upload PowerBI report in google form.**

1. What does Power BI stand for?

- A) Powerful Business Intelligence

- B) Power Business Integration

- C) Practical Business Insights

- D) Potential Business Impact

**Answer**: A) Powerful Business Intelligence

2. Which type of files can be used as a data source in Power BI Desktop?

- A) Only Excel files

- B) Only CSV files

- C) Various types including Excel, CSV, and databases

- D) Only text files

**Answer**: C) Various types including Excel, CSV, and databases

3. What is the primary purpose of Power Query in Power BI?

- A) Data visualization

- B) Data modeling

- C) Data transformation and cleaning

- D) Data analysis

**Answer**: C) Data transformation and cleaning

4. In Power BI, what is a visual?

- A) A dataset

- B) A chart or report element

- C) A query

- D) A table

**Answer**: B) A chart or report element

5. Which Power BI component is used for creating interactive reports and dashboards?

- A) Power BI Desktop

- B) Power BI Service

- C) Power BI Mobile

- D) Power BI Gateway

**Answer**: B) Power BI Service

6. What is the purpose of the Power BI Gateway?

- A) To create dashboards

- B) To connect to on-premises data sources

- C) To design reports

- D) To share reports with others

**Answer**: B) To connect to on-premises data sources

7. Which language is used to write custom calculations in Power BI?

- A) Python

- B) R

- C) DAX (Data Analysis Expressions)

- D) SQL

**Answer**: C) DAX (Data Analysis Expressions)

8. What does a Power BI Desktop file have the extension?

- A) .pbix

- B) .xlsx

- C) .pbit

- D) .pbir

**Answer**: A) .pbix

9. Which of the following is NOT a Power BI visualization type?

- A) Bar chart

- B) Data table

- C) Pie chart

- D) Linear regression model

**Answer**: D) Linear regression model

10. In Power BI, what is the purpose of the "Relationships" view?

- A) To manage user access

- B) To define relationships between tables

- C) To create calculated columns

- D) To design dashboards

**Answer**: B) To define relationships between tables

11. What is the maximum number of rows visible in the data view of Power BI Desktop?

- A) 500

- B) 1,000

- C) 10,000

- D) 100,000

**Answer**: C) 10,000

12. Which Power BI feature allows you to ask questions about your data using natural language?

- A) Q&A

- B) Insights

- C) Quick Insights

- D) Data Insights

**Answer**: A) Q&A

13. What is the purpose of the Power BI "Publish" feature?

- A) To print reports

- B) To share reports to the Power BI Service

- C) To export reports to Excel

- D) To schedule report refresh

**Answer**: B) To share reports to the Power BI Service

14. Which type of visual allows users to input values directly in Power BI?

- A) Table

- B) Card

- C) Slicer

- D) Gauge

**Answer**: B) Card

15. What is the role of the Power BI Service?

- A) Designing reports

- B) Sharing and collaborating on reports online

- C) Importing data

- D) Creating calculated columns

**Answer**: B) Sharing and collaborating on reports online

16. Which Power BI component is used for connecting to live, on-premises data sources?

- A) Power BI Desktop

- B) Power BI Gateway

- C) Power BI Service

- D) Power BI Mobile

**Answer**: B) Power BI Gateway

17. What is the purpose of Power BI Embedded?

- A) Embedding Power BI reports into custom applications

- B) Embedding external reports into Power BI

- C) Embedding Power BI Service into web pages

- D) Embedding Power BI visuals into PowerPoint

**Answer**: A) Embedding Power BI reports into custom applications

18. In Power BI, what is a measure?

- A) A calculated column

- B) A data type

- C) A value from the data source

- D) A calculation based on aggregated data

**Answer**: D) A calculation based on aggregated data

19. Which Power BI feature allows you to schedule data refresh for imported data?

- A) Power Query

- B) Power BI Gateway

- C) Power BI Service

- D) Power BI Mobile

**Answer**: C) Power BI Service

20. What is the purpose of the Power BI "Drillthrough" feature?

- A) To create calculated columns

- B) To filter data in a visual

- C) To navigate to detailed information from a report

- D) To export data to Excel

**Answer**: C) To navigate to detailed information from a report

21. Which Power BI component allows users to access and view reports on mobile devices?

- A) Power BI Desktop

- B) Power BI Service

- C) Power BI Gateway

- D) Power BI Mobile

**Answer**: D) Power BI Mobile

22. What does the term "Power BI Tenant" refer to?

- A) A collection of visuals

- B) An instance of Power BI Desktop

- C) An individual Power BI user

- D) An organization's workspace in the Power BI Service

**Answer**: D) An organization's workspace in the Power BI Service

23. In Power BI, what is the purpose of the "Custom Visuals" feature?

- A) To create custom themes

- B) To import external data

- C) To design custom visualizations

- D) To create calculated tables

**Answer**: C) To design custom visualizations

24. Which Power BI feature allows you to create hierarchical data visualizations?

- A) Drilldown

- B) Stacked bar chart

- C) Tree map

- D) Gauge chart

**Answer**: C) Tree map

25. What is the purpose of the "Power BI Apps" feature?

- A) To install additional Power BI components

- B) To share entire dashboards and reports as a package

- C) To create custom visuals

- D) To manage user access

**Answer**: B) To share entire dashboards and reports as a package

26. What is the purpose of Power BI Dataflows?

- A) To visualize data

- B) To create calculated columns

- C) To transform and prepare data for analysis

- D) To schedule report refresh

**Answer**: C) To transform and prepare data for analysis

27. Which Power BI component allows users to create custom visuals using JavaScript?

- A) Power BI Desktop

- B) Power BI Service

- C) Power BI Gateway

- D) Power BI Developer

**Answer**: D) Power BI Developer

28. What is the maximum number of rows that can be imported into Power BI Desktop for free?

- A) 50,000

- B) 100,000

- C) 150,000

- D) 200,000

**Answer**: B) 100,000

29. In Power BI, what is the purpose of the "Group" feature in the Fields pane?

- A) To create calculated groups

- B) To organize fields hierarchically

- C) To filter data in a visual

- D) To create calculated tables

**Answer**: B) To organize fields hierarchically

30. Which Power BI visual type is suitable for displaying trends over time?

- A) Pie chart

- B) Line chart

- C) Gauge chart

- D) Funnel chart

**Answer**: B) Line chart

31. What is the purpose of the Power BI "Quick Insights" feature?

- A) To quickly create a report

- B) To perform advanced data analysis

- C) To automatically generate insights and trends

- D) To design custom visuals

**Answer**: C) To automatically generate insights and trends

32. In Power BI, what is the purpose of the "Custom Visualizations" pane?

- A) To modify existing visuals

- B) To add external data sources

- C) To import custom visuals from the marketplace

- D) To create calculated measures

**Answer**: C) To import custom visuals from the marketplace

33. Which Power BI component allows you to create and manage security roles?

- A) Power BI Desktop

- B) Power BI Service

- C) Power BI Gateway

- D) Power BI Admin Portal

**Answer**: B) Power BI Service

34. What does the "Row-level security" feature in Power BI allow you to control?

- A) Control access to specific data rows based on user roles

- B) Control access to specific visuals in a report

- C) Control access to report editing features

- D) Control access to Power BI service features

**Answer**: A) Control access to specific data rows based on user roles

35. Which type of Power BI visual allows users to filter data in other visuals based on selected values?

- A) Slicer

- B) Card

- C) Table

- D) Gauge chart

**Answer**: A) Slicer

36. What is the purpose of the "Publish to web" feature in Power BI?

- A) To share reports with specific users

- B) To embed reports in a website or blog

- C) To print reports

- D) To export reports to PDF

**Answer**: B) To embed reports in a website or blog

37. In Power BI, what is the purpose of the "Query Editor"?

- A) To design custom visuals

- B) To create calculated columns

- C) To transform and shape data

- D) To define relationships between tables

**Answer**: C) To transform and shape data

38. What is the primary function of the "Power BI Mobile App"?

- A) To design reports

- B) To connect to on-premises data sources

- C) To access and view Power BI reports on mobile devices

- D) To create calculated measures

**Answer**: C) To access and view Power BI reports on mobile devices

39. Which of the following is NOT a valid Power BI data visualization type?

- A) KPI

- B) Scatter plot

- C) Pyramid chart

- D) Heat map

**Answer**: C) Pyramid chart

40. What is the purpose of the "Power BI Developer Tools" extension for Visual Studio Code?

- A) To design reports

- B) To create custom visuals using TypeScript

- C) To connect to external data sources

- D) To manage user access

**Answer**: B) To create custom visuals using TypeScript

41. In Power BI, what is the role of a "Power BI Workspace"?

- A) To manage data connections

- B) To organize and collaborate on reports and dashboards

- C) To create calculated columns

- D) To schedule report refresh

**Answer**: B) To organize and collaborate on reports and dashboards

42. What is the purpose of the "Power BI Paginated Report Builder"?

- A) To create interactive reports

- B) To design paginated reports for printing

- C) To connect to live data sources

- D) To import data into Power BI

**Answer**: B) To design paginated reports for printing

43. In Power BI, what is the purpose of the "Key Influencers" visual?

- A) To show the key contributors to a particular metric

- B) To create calculated columns

- C) To filter data based on user input

- D) To create custom visuals

**Answer**: A) To show the key contributors to a particular metric

44. What does the "Power BI Apps" workspace contain?

- A) Pre-built visuals

- B) Custom themes

- C) Entire dashboards and reports as a package

- D) External data connections

**Answer**: C) Entire dashboards and reports as a package

45. In Power BI, what is the purpose of the "Power BI Admin Portal"?

- A) To design reports

- B) To manage user access and permissions

- C) To create calculated columns

- D) To import data from external sources

**Answer**: B) To manage user access and permissions

**Scenario-Based Questions – Student has to update file of visualization in google form**

1. Create a visualization on given dataset below: Jobs and Salaries in Data Science

[**https://www.kaggle.com/datasets/hummaamqaasim/jobs-in-data/download?datasetVersionNumber=6**](https://www.kaggle.com/datasets/hummaamqaasim/jobs-in-data/download?datasetVersionNumber=6)

1. Create a visualization on given dataset below: World Population Dataset

[**https://www.kaggle.com/datasets/sazidthe1/world-population-data/download?datasetVersionNumber=1**](https://www.kaggle.com/datasets/sazidthe1/world-population-data/download?datasetVersionNumber=1)

1. Create a visualization on given dataset below: Netflix IMDB Scores

[**https://www.kaggle.com/datasets/thedevastator/netflix-imdb-scores/download?datasetVersionNumber=2**](https://www.kaggle.com/datasets/thedevastator/netflix-imdb-scores/download?datasetVersionNumber=2)