Power BI MCQs – Beginner to Advanced

Beginner Level (1–15)

1. **What is Power BI primarily used for?**
   a) Programming
   b) Web Development
   c) Business Analytics
   d) Video Editing
   Answer: c) Business Analytics

2. **Which of the following is a component of Power BI?**
   a) Power Editor
   b) Power Map
   c) Power Query
   d) Power Web
   Answer: c) Power Query
   Explanation: Power Query is used for data connection, transformation, and loading.

3. **What is the function of Power BI Desktop?**
   a) Data Storage
   b) Data Modeling and Report Building
   c) Email Marketing
   d) None of the above
   Answer: b) Data Modeling and Report Building

4. **Which language is used in Power BI for creating measures and calculated columns?**
   a) SQL
   b) R
   c) DAX
   d) Python
   Answer: c) DAX (Data Analysis Expressions)

5. **Which of the following file extensions does Power BI Desktop use?**
   a) .pbix
   b) .pbit
   c) .xlsx
   d) .docx
   Answer: a) .pbix

6. **Which pane allows users to add visualizations to a report?**
   a) Data Pane
   b) Model Pane
   c) Visualization Pane
   d) Report Pane

Answer: c) Visualization Pane

7. **What is the first step in Power BI data modeling?**
   a) Create visuals
   b) Load data
   c) Write DAX
   d) Publish report
   Answer: b) Load data

8. **Which of the following is NOT a visualization type in Power BI?**
   a) Pie Chart
   b) Slicer
   c) Treemap
   d) Spreadsheet
   Answer: d) Spreadsheet

9. **Can you refresh data automatically in Power BI service?**
   a) No
   b) Only once
   c) Yes, using scheduled refresh
   d) Only manually
   Answer: c) Yes, using scheduled refresh

10. **Which feature is used to filter data interactively in Power BI reports?**
    a) Cards
    b) Tables
    c) Slicers
    d) Maps
    Answer: c) Slicers

11. **Which view allows you to build relationships between tables?**
    a) Report View
    b) Model View
    c) Data View
    d) Dashboard View
    Answer: b) Model View

12. **Power BI can connect to which of the following data sources?**
    a) Excel
    b) SQL Server
    c) Web
    d) All of the above
    Answer: d) All of the above

13. **Which DAX function returns the total of a column?**
     a) AVERAGE
     b) COUNT
     c) SUM
     d) MAX
     Answer: c) SUM

14. **Power BI service is also known as:**
     a) Power BI Desktop
     b) Power BI Cloud
     c) Power BI Mobile
     d) Power BI Online
     Answer: d) Power BI Online

15. **You can share dashboards with:**
     a) Anyone
     b) Users with Power BI Pro license
     c) Microsoft employees only
     d) Admins only
     Answer: b) Users with Power BI Pro license

Intermediate Level (16–30)

16. **What does a one-to-many relationship in Power BI imply?**
     a) One table can have many records
     b) One record in a table relates to many in another
     c) One column maps to multiple visuals
     d) None
     Answer: b) One record in a table relates to many in another

17. **Which visual would you use to represent hierarchical data?**
     a) Line chart
     b) Tree map
     c) Donut chart
     d) Matrix
     Answer: b) Tree map

18. **Power Query uses which language in the backend?**
     a) DAX
     b) SQL
     c) M
     d) R

Answer: c) M

19. **What is the function of "Append Queries"?**
    a) Merge tables side by side
    b) Combine tables vertically
    c) Remove duplicates
    d) Split tables
    Answer: b) Combine tables vertically
    Explanation: Append stacks rows from multiple tables.

20. **Which visual would best display trends over time?**
    a) Bar chart
    b) Pie chart
    c) Line chart
    d) Card
    Answer: c) Line chart

21. **Which DAX function returns a table?**
    a) SUM
    b) VALUES
    c) MAX
    d) COUNT
    Answer: b) VALUES

22. **What is drill-through in Power BI?**
    a) Exporting data
    b) Zooming into charts
    c) Filtering a page based on selected values
    d) None
    Answer: c) Filtering a page based on selected values

23. **What happens when you use a slicer in Power BI?**
    a) It changes the layout
    b) It filters visuals based on selection
    c) It deletes data
    d) It exports the report
    Answer: b) It filters visuals based on selection

24. **Which feature allows seeing the impact of each field on a value?**
    a) Drill-through
    b) Q&A
    c) Decomposition Tree
    d) Tooltip

Answer: c) Decomposition Tree

25. **What is the role of "Measure" in Power BI?**
    a) Static text
    b) A calculated value using DAX
    c) Table format
    d) None
    Answer: b) A calculated value using DAX

26. **Which function removes duplicate rows from a table in Power Query?**
    a) Remove Columns
    b) Remove Rows
    c) Remove Duplicates
    d) Filter
    Answer: c) Remove Duplicates

27. **How does Power BI handle many-to-many relationships?**
    a) Allows it directly
    b) Does not support
    c) Needs a bridge table
    d) Only in Power BI Premium
    Answer: c) Needs a bridge table

28. **What's the difference between calculated column and measure?**
    a) Column uses DAX, measure doesn't
    b) Measure is evaluated on aggregation, column on row-level
    c) Measure creates a new table
    d) No difference
    Answer: b) Measure is evaluated on aggregation, column on row-level

29. **In Power BI, what does "Publish" do?**
    a) Uploads report to SharePoint
    b) Uploads report to Power BI Service
    c) Sends report as email
    d) Converts report to Excel
    Answer: b) Uploads report to Power BI Service

30. **Bookmarks in Power BI are used for:**
    a) Saving webpage links
    b) Navigating reports and capturing report states
    c) Saving queries
    d) Storing database names
    Answer: b) Navigating reports and capturing report states

Advanced Level (31–40)

31. **Which of the following allows you to create custom visuals?**
    a) DAX
    b) R Script
    c) Excel
    d) PowerPoint
    Answer: b) R Script

32. **What is the purpose of the CALCULATE function in DAX?**
    a) Create visuals
    b) Convert data types
    c) Modify filter context
    d) Save reports
    Answer: c) Modify filter context
    Explanation: CALCULATE changes the context in which a DAX expression is evaluated.

33. **Which type of relationship is not allowed in Power BI?**
    a) One-to-many
    b) Many-to-one
    c) Many-to-many (without intermediary)
    d) All are allowed
    Answer: c) Many-to-many (without intermediary)

34. **What is incremental refresh?**
    a) Refreshes all data
    b) Refreshes only new/changed data
    c) Manual refresh
    d) Deletes old data
    Answer: b) Refreshes only new/changed data

35. **In Power BI, what is row-level security (RLS)?**
    a) Hiding dashboards
    b) Restricting data access by user
    c) Changing report colors
    d) Adding DAX functions
    Answer: b) Restricting data access by user

36. **What does DAX function ALL() do?**
    a) Filters only selected rows
    b) Ignores filters
    c) Adds all columns
    d) Creates charts
    Answer: b) Ignores filters

Explanation: ALL removes all filters from a column or table.

37. **Which Power BI feature helps in natural language queries?**
    a) Q&A
    b) Filters
    c) Groups
    d) Tooltip
    Answer: a) Q&A

38. **You can pin visualizations to dashboards from:**
    a) PowerPoint
    b) Power BI Mobile
    c) Power BI Reports
    d) Power Query
    Answer: c) Power BI Reports

39. **Which of the following can create paginated reports?**
    a) Power BI Desktop
    b) Power BI Report Builder
    c) Excel
    d) SQL Server
    Answer: b) Power BI Report Builder

40. **What is the role of a gateway in Power BI?**
    a) Connecting cloud services
    b) Automating reports
    c) Connecting on-premise data with Power BI service
    d) Exporting visuals
    Answer: c) Connecting on-premise data with Power BI service

DAX Questions (41–60)

41. **Which DAX function is used to create conditional logic?**
    a) SWITCH
    b) FILTER
    c) CALCULATE
    d) ALL
    Answer: a) SWITCH

42. **What does the RELATED function do?**
    a) Combines queries
    b) Returns values from related table
    c) Joins columns

d) Aggregates data
Answer: b) Returns values from related table

43. **Which function would you use to calculate running total?**
    a) CALCULATE
    b) SUMX
    c) TOTALYTD
    d) MAX
    Answer: c) TOTALYTD

44. **What is the purpose of DISTINCT function?**
    a) Removes nulls
    b) Returns unique values
    c) Sorts data
    d) Groups data
    Answer: b) Returns unique values

45. **Which function helps in counting rows in a table?**
    a) COUNT
    b) COUNTROWS
    c) SUMX
    d) LEN
    Answer: b) COUNTROWS

46. **What does the HASONEVALUE function do?**
    a) Checks if table is empty
    b) Returns a count
    c) Checks if column has single value
    d) None of the above
    Answer: c) Checks if column has single value

47. **Which function ignores existing filters on a table or column?**
    a) ALL
    b) FILTER
    c) SUM
    d) IF
    Answer: a) ALL

48. **What is the role of VALUES function?**
    a) Returns all unique values from a column
    b) Returns all rows
    c) Sorts values
    d) Applies filters

Answer: a) Returns all unique values from a column

49. **Which function is commonly used to iterate over rows of a table?**
    a) SUM
    b) SUMX
    c) CALCULATE
    d) RELATED
    Answer: b) SUMX

50. **How do you handle blanks using DAX?**
    a) BLANK()
    b) ISBLANK()
    c) IF(ISBLANK(...))
    d) All of the above
    Answer: d) All of the above

51. **Which function returns the last date in a column?**
    a) LASTDATE
    b) MAX
    c) ENDDATE
    d) MAXDATE
    Answer: a) LASTDATE

52. **Which function helps in calculating percentages in DAX?**
    a) PERCENTILEX
    b) DIVIDE
    c) MULTIPLY
    d) RATIO
    Answer: b) DIVIDE

53. **What is the use of USERELATIONSHIP?**
    a) Enable an inactive relationship temporarily
    b) Merge tables
    c) Delete relationship
    d) None of the above
    Answer: a) Enable an inactive relationship temporarily

54. **Which DAX function returns true/false?**
    a) OR
    b) AND
    c) IF
    d) All of the above
    Answer: d) All of the above

55. **What is the purpose of RANKX?**
    a) Rank values within a column
    b) Sort values
    c) Filter data
    d) Aggregate data
    Answer: a) Rank values within a column

56. **Which function gives the difference between two dates?**
    a) DATEDIFF
    b) DATEADD
    c) SUBTRACT
    d) DIFFERENCE
    Answer: a) DATEDIFF

57. **Which function is used to return year from a date?**
    a) YEAR
    b) FORMAT
    c) GETYEAR
    d) DAXYEAR
    Answer: a) YEAR

58. **Which function calculates cumulative value over time?**
    a) RUNNINGTOTAL
    b) CALCULATE
    c) TOTALYTD
    d) SUM
    Answer: c) TOTALYTD

59. **Which function removes filter context from all columns in the table?**
    a) REMOVEFILTERS
    b) ALL
    c) CLEARFILTERS
    d) NONE
    Answer: b) ALL

60. **Which function allows dynamic titles in visuals?**
    a) CONCATENATE
    b) SELECTEDVALUE
    c) FORMAT
    d) VALUE
    Answer: b) SELECTEDVALUE