

IMBA (IIS) & BRS/IMRS Sem 6 Examination

Data Analytics-II

Time : 2-30 Hours]

May-2025

[Max. Marks : 70

Instruction:

- 1) The figures on right hand side indicates marks.
- 2) All questions are compulsory.

NO	QUESTION	Marks
Q-1	Which of the following visual is best suited for displaying correlations between two variables? A) Line Chart B) Pie Chart C) Scatter Chart D) Card	1
Q-2	What is the default aggregation method for numeric fields in Power BI? A) SUM B) AVERAGE C) MAX D) COUNT	1
Q-3	Which pane is used to format visuals in Power BI? A) Fields pane B) Visualizations pane C) Filters pane D) Data pane	1
Q-4	Which of the following is NOT a valid DAX function? A) DISTINCTCOUNT() B) SUMX() C) AVERAGEIF() D) MAXX()	1
Q-5	Which of these is a Power BI feature to allow data drill-down? A) Tooltip B) Hierarchy C) KPI D) Slicer	1
Q-6	Which DAX function is used to return a table that is a subset of another table? A) FILTER() B) CONCATENATE() C) SUM() D) CALCULATE()	1
Q-7	What does a "slicer" do in a Power BI report?	1

- A) Changes color schemes
 B) Acts as a dynamic filter
 C) Edits DAX formulas
 D) Formats tables
- Q-8** Which of these is best for displaying a metric and its goal together? 1
 A) Card
 B) KPI
 C) Line Chart
 D) Matrix
- Q-9** Which of the following is used to clean and transform data? 1
 A) Data View
 B) Power Query Editor
 C) Report View
 D) Model View
- Q-10** Which feature allows users to ask natural language questions? 1
 A) Filters
 B) Slicer
 C) Q&A
 D) Tooltip
- Q-11** What does the Power BI gateway allow? 1
 A) Creating new dashboards
 B) Real-time data refresh from on-premises sources
 C) Adding animations to charts
 D) Encrypting reports
- Q-12** Which of these visuals shows part-to-whole relationships? 1
 A) Table
 B) Matrix
 C) Pie Chart
 D) Line Chart
- Q-13** Which function returns the number of rows in a table? 1
 A) COUNT()
 B) ROWCOUNT()
 C) COUNTROWS()
 D) SUM()
- Q-14** Which function is used to change the data type in Power Query? 1
 A) FORMAT
 B) DATATYPE
 C) CONVERT
 D) Change Type
- Q-15** Which of these is a calculated field that updates dynamically? 1
 A) Measure
 B) Slicer
 C) Matrix
 D) KPI

- Q-16** Which visual is best for cumulative total over time? 1
 A) Bar Chart
 B) Area Chart
 C) Scatter Plot
 D) Tree Map
- Q-17** Which of the following allows combining rows from two tables? 1
 A) Append Queries
 B) Merge Queries
 C) Matrix Visual
 D) Drillthrough
- Q-18** Which feature is used to navigate to a detailed report view? 1
 A) Tooltip
 B) Drillthrough
 C) KPI
 D) Q&A
- Q-19** Which function returns TRUE if a value is blank? 1
 A) ISNULL()
 B) ISBLANK()
 C) EMPTY()
 D) CHECKNULL()
- Q-20** Which visual helps in identifying the distribution of data? 1
 A) Funnel Chart
 B) Histogram
 C) Card
 D) KPI
- Q-21** What is a One-to-Many relationship? 1
 A) One row in table A matches many rows in table B
 B) Many rows in table A match one row in table B
 C) One row matches one row
 D) Tables are not related
- Q-22** Which DAX function combines multiple expressions? 1
 A) IF()
 B) SWITCH()
 C) SELECTCOLUMNS()
 D) ADDCOLUMNS()
- Q-23** Which of the following is not a type of Power BI view? 1
 A) Report View
 B) Model View
 C) Data View
 D) Query View
- Q-24** What happens when you remove filters using REMOVEFILTERS()? 1
 A) No effect on calculation
 B) Applies all filters
 C) Clears filter context

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- D) Adds a filter context
- Q-25** What does a matrix visual represent? 1
A) A single value
B) A table with rows and columns
C) A pie chart
D) A line plot
- Q-26** Which DAX function calculates running totals? 1
A) TOTALYTD()
B) SUMX()
C) SUM()
D) RUNNINGTOTAL()
- Q-27** Which of these file types supports template reports in Power BI? 1
A) .PBIX
B) .PBIT
C) .CSV
D) .XLSX
- Q-28** What is the main purpose of Power BI Desktop? 1
A) Data storage
B) Data modeling and report creation
C) Gateway management
D) Writing SQL queries
- Q-29** What is the purpose of the Power BI Service? 1
A) Writing Python code
B) Installing Power BI
C) Online collaboration and report sharing
D) Data backup
- Q-30** Which of the following allows automatic date table creation? 1
A) TODAY()
B) CALENDARAUTO()
C) DATEADD()
D) NOW()
- Q-31** What is used to modify the visual's appearance? 1
A) Fields pane
B) Visualizations pane
C) Format pane
D) Model view
- Q-32** What does SELECTCOLUMNS() do in DAX? 1
A) Filters rows
B) Combines tables
C) Returns a table with selected columns
D) Adds a calculated column
- Q-33** Which function helps return top 'n' rows? 1
A) RANK()
B) TOPN()

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- C) MAXX()
D) ORDERBY()
- Q-34** Which visual would best show actual vs target comparison? 1
A) KPI
B) Pie Chart
C) Matrix
D) Tree Map
- Q-35** Which DAX function is used to merge tables? 1
A) UNION()
B) FILTER()
C) LOOKUPVALUE()
D) ADDCOLUMNS()
- Q-36** Which chart type is ideal for showing performance over time? 1
A) Column Chart
B) Scatter Plot
C) Card
D) Gauge
- Q-37** Which one of the following can't be used in a DAX measure? 1
A) SUM()
B) AVERAGE()
C) RANKX()
D) FILTER QUERY()
- Q-38** Which relationship cardinality is supported in Power BI? 1
A) One-to-One
B) One-to-Many
C) Many-to-Many
D) All of the above
- Q-39** Which of the following enables page-level filters? 1
A) Filter Pane
B) Visualization Pane
C) Fields Pane
D) Q&A Pane
- Q-40** Which tab allows scheduling data refresh? 1
A) Model
B) File
C) Dataset settings (Service)
D) Format
- Q-41** The function FORMAT() is used for: 1
A) Formatting charts
B) Formatting visual borders
C) Converting data to string
D) Writing SQL queries
- Q-42** Which DAX function returns a specific value from another table? 1
A) RELATED()

- B) CALCULATE()
C) SUMMARIZE()
D) BLANK()
- Q-43** Which chart would be best for sales by region? 1
A) Tree Map
B) Pie Chart
C) Line Chart
D) Card
- Q-44** Which of the following can be used to merge two queries in Power BI? 1
A) Merge Queries
B) Append Queries
C) Combine Tables
D) Match Columns
- Q-45** What is the use of GROUPBY() in DAX? 1
A) Group visuals
B) Create dashboards
C) Aggregate data based on specified columns
D) Format charts
- Q-46** Which of the following is used to manage data refresh schedules? 1
A) DAX Studio
B) Power Query
C) Gateway
D) Report View
- Q-47** What is the result of using DISTINCT() in DAX? 1
A) Duplicates all rows
B) Returns unique values from a column
C) Removes blank cells
D) Converts data types
- Q-48** Which DAX function replaces blank values with a default? 1
A) SUBSTITUTE()
B) BLANK()
C) COALESCE()
D) SWITCH()
- Q-49** Which of these features allows creation of bookmarks in Power BI? 1
A) Data View
B) Visualization Pane
C) Report View
D) Page Navigation
- Q-50** Which Power BI feature helps users toggle between different views? 1
A) Visual Level Filter
B) Bookmark
C) Drillthrough
D) Custom Theme
- Q-51** What is the use of the DAX function EARLIER()? 1

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- A) Access outer row context
B) Perform data refresh
C) Create measures
D) Hide columns
- Q-52** Which visual best shows variance over time? 1
A) Gauge
B) Waterfall Chart
C) Funnel Chart
D) Matrix
- Q-53** Which Power BI feature allows mobile layout customization? 1
A) Report View
B) Mobile Layout View
C) Page Settings
D) Theme Editor
- Q-54** Which function is used to sort data in Power BI tables? 1
A) SORTBY()
B) ARRANGE()
C) RANKX()
D) ORDERBY()
- Q-55** Which of the following is not a valid Power BI export format? 1
A) PDF
B) PowerPoint
C) Word
D) Excel
- Q-56** Which DAX function evaluates an expression for each row and returns a result? 1
A) AVERAGE()
B) FILTER()
C) SUMX()
D) SWITCH()
- Q-57** What is used to highlight a single key metric visually? 1
A) Card
B) Matrix
C) Line Chart
D) Pie Chart
- Q-58** Which Power BI visual is best suited for hierarchy navigation? 1
A) Matrix
B) Tree Map
C) Bar Chart
D) Pie Chart
- Q-59** Which of these allows saving customized themes? 1
A) Report Settings
B) Theme JSON File
C) Power Query
D) Data Pane

- Q-60** What does LOOKUPVALUE() do in DAX? 1
 A) Joins two columns
 B) Retrieves a value from another table based on a key
 C) Creates measures
 D) Summarizes data
- Q-61** Which Power BI feature allows auto-generated insights? 1
 A) Smart Narrative
 B) Bookmarks
 C) Tooltip
 D) Data Model
- Q-62** Which of the following can create calculated tables? 1
 A) Model View
 B) Fields Pane
 C) DAX Table Expression
 D) Visualizations Pane
- Q-63** Which of the following functions works with time intelligence? 1
 A) DATEDIFF()
 B) CALCULATE()
 C) TOTALYTD()
 D) DISTINCTCOUNT()
- Q-64** Which Power BI feature enables storytelling with visuals? 1
 A) Drilldown
 B) Bookmarks
 C) Hierarchies
 D) Filters
- Q-65** Which Power BI visual best supports category comparison over time? 1
 A) Column Chart
 B) Table
 C) Tree Map
 D) Pie Chart
- Q-66** Which of the following allows creating page navigation buttons? 1
 A) Slicer
 B) Shape + Action
 C) Q&A
 D) Visual Filter
- Q-67** Which function is used to test multiple logical conditions? 1
 A) IF()
 B) SWITCH()
 C) SELECTCOLUMNS()
 D) FORMAT()
- Q-68** Which is a valid table constructor in DAX? 1
 A) {1, 2, 3}
 B) [1, 2, 3]
 C) (1, 2, 3)

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- D) <1, 2, 3>
- Q-69** Which DAX function returns the current context's first value? 1
- A) FIRSTROW()
 - B) FIRSTNONBLANK()
 - C) FIRST()
 - D) TOP()
- Q-70** Which visual would be used for sales funnel analysis? 1
- A) Bar Chart
 - B) Line Chart
 - C) Funnel Chart
 - D) Matrix
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