

PUSASQF604
Data Visualisation –Power BI

Time: 2 hours
Total Marks: 60 marks

Note:

1. The candidate has option to either attempt Q4 A or B
2. Numbers to the right indicate full marks.
3. Use of approved scientific calculator is allowed.

Q1) Attempt any 3 out of 4 (Use Dataset2)

Q1A Create Custom function to multiply Units Sold & Sales, Invoke the function in the Custom column calculation rename it as Revenue. **5 Marks**

Q1B Create hierarchy using Segment, Country & Product and showcase drilldown functionality column chart (using sales as metric). **5 Marks**

Q1C Show Running total of profit by date **5 Marks.**

Q2) Attempt any 3 out of 4 (Use Dataset2)

Q2A Explain the concept of DAX in Power BI. **5 Marks**

Q2B Which Discount Band has more sales? What is the percentage of it? **5 Marks**

Q2C Create table matrix (Segment, Product, sales) and add conditional formatting based on below rule. **5 Marks**

< 1Million	Red
1Million - 5Million	Amber
> 5Million	Green

Q3) Attempt any 3 out of 4 (Use Dataset1)

Q3A Enter below data manually in Power BI & Mark the “Festival” value in column in above calendar table. **5 Marks**

Date	Holiday Name
26-01-2011	Republic Day
01-05-2011	Maharashtra Day
13-09-2011	Ganesh Chaturthi
25-12-2011	Christmas

Q3B Perform the conditional formatting of background color based on sales by date. **5 Marks**

< 500	Red
500 - 850	Yellow
> 850	Green

Q3C Show Quantity by Date in column chart with drill down functionality. **5 Marks**

Attempt Q4 A OR B

Q4 Solve the following questions.

A)

- i) Create Master Calendar table for year 2010 to 2025, extract Year, Month No, Month Name, Quarter No, Quarter Name, Month & Year, Quarter & Year, Day Name, First Day of the Month, Last Day of the Month.

7 Marks

ii) **Make use of Dataset1.**

- a) Calculate MTD Sales.
- b) Calculate YTD Sales.
- c) Calculate QTD Sales.
- d) Show the trend of current year's Sales Vs Previous year sales.

OR

B) Make use of Dataset 4 & Create a Dashboard

15 Marks

- i) Create a bar chart using category & sales with visual formatting
Create a line chart using sub-category & sales with visual formatting
Create a pie chart using segment & sales with visual formatting
Create a slicer using market & sales with visual formatting
Create a filled map chart using country & sales with visual formatting

10 Marks.

- ii) Create a measure for total profit using card chart
create a measure for total sales using card chart.
create a measure for total discount using card chart.
Create a Title using Text Box & name it as Sales Report
Do visual formatting in all the cards.

5 Marks.