

Plot No. 2, Knowledge Park-III, Greater Noida (U.P.) –201306

POST GRADUATE DIPLOMA IN MANAGEMENT (2024-25)

END TERM EXAMINATION (TERM -III)

 Subject Name: **Power BI**

 Time: **02.00 hrs**

 Sub. Code: **PG34**

 Max Marks: **40**
Note:

- All questions are compulsory. Section A carries 12 marks: 6 questions of 2 mark each, Section B carries 18 marks having 3 questions (with an internal choice question in each) of 6 marks each and Section C carries 10 marks one Case Study having 2 questions of 5 marks each.
- Questions are to be solved using MS-Power BI on an individual Computer/LAPTOP.
 - The first page must contain the following details:

Date of Exam	
Examination Room No.	
Name	
Admission Number	
Section	
Course	

- Use separate Power BI Page for each question and keep the name of the Page as **Question Number**
 - Save the file using your examination hall no., admission no., full name and section.
For example (PGDM23231_Smita_B) with .pbix extension and submit the soft copies using a PD.
- Data sheets are provided as a soft copy in a pen drive.

SECTION – A		
Attempt all questions. All questions are compulsory.		
2×6 = 12 Marks		
Import the given files “Sales.xlsx” and “Product.xlsx” in Power BI for Sections A and B.		
Questions	CO	Bloom's Level
Give all answers from Q.1 (A) to Q.1 (F) on one page named Q.1. Q. 1: (A). Add a text box on the page and mention “Answer 1”. Create an appropriate chart showing total sales by region. Apply appropriate formatting. Q. 1: (B). Create a combo chart for sales and profit by customers. Use a slicer to filter data by region. Q. 1: (C). Create a measure using DAX function to count the number of rows in ‘Sales’ table. Rename the measure as ‘Q1(C)’. And, show it through a card. Q. 1: (D). Create an area chart showing monthly sales trends. Apply appropriate formatting. Q. 1: (E). Create page navigation buttons for every question page. so that when button is clicked, it navigates to the respective question page. Apply appropriate formatting. Q. 1: (F). Create a Waterfall chart showing profit contribution by product. Apply appropriate formatting.	CO1	L3
SECTION – B		
All questions are compulsory (Each question has an internal choice. Attempt anyone (either A or B) from the internal choice)		
6 x 3 = 18 Marks		
Questions	CO	Bloom's Level

<p>Q. 2: (A). Create a matrix visualization showing average sales by product category and region. Format the matrix. Apply conditional formatting.</p> <p style="text-align: center;">Or</p> <p>Q. 2: (B). In power query editor, create a duplicate query of ‘Sales’, rename the duplicate query as ‘Q2(B)’. In the query ‘Q2(B)’, group the customers by profit. Load the query in Power BI.</p> <p>Q. 3: (A). Create a pie chart showing ‘Sales by Region’. On next page, create a table showing ‘Sales by Customer’. Use the drill through feature to analyze customer-level details when a specific region is selected. Give appropriate formatting to the charts.</p> <p style="text-align: center;">Or</p> <p>Q. 3: (B). Using Power Query Editor, merge two queries (Sales and Products). Rename the new query as Q3(B) and load it in Power BI. Create a bar chart showing sales by product. Create a tooltip showing three visuals of your choice on it for bar chart.</p> <p>Q. 4: (A). Use DAX function LOOKUPVALUE to fetch product category names into ‘Sales’ sheet from ‘Product’ sheet. Rename the new column as ‘Q4(A)’</p> <p style="text-align: center;">Or</p> <p>Q. 4: (B). Use the DAX function IF to create a new column that labels sales as 'High' if above Rs. 1000, else 'Low'. Rename the new column as ‘Q4(B)’.</p>	CO2	L3
	CO3	L4
	CO4	L4
<u>SECTION – C</u>		
Read the case and answer the questions		5×02 = 10 Marks
Questions	CO	Bloom’s Level
<p>Q. 5: Case Study: You are a data analyst at a multi-specialty hospital. Management wants to monitor patient treatment patterns and hospital performance through an interactive dashboard. You are provided with patient records from the past year. Using the provided dataset ‘Hospital_Patient_Data’, create an insightful and interactive Power BI dashboard (the whole question 5 must be on one page) with the following:</p> <p>Q. 5: (A). Create cards for Total Patients, Average Treatment Cost, Average Length of Stay (Discharge Date – Admission Date). Give appropriate formatting. Add important slicers.</p> <p>Q. 5: (B). Further, create 5-6 visualizations to get the best insights out of data, that can be beneficial for hospital.</p>	CO5	L5

Kindly fill in the total marks allocated to each CO in the table below:

COs	Question No.	Marks Allocated
CO1	Q1	12
CO2	Q2	6
CO3	Q3	6
CO4	Q4	6
CO5	Q5	10
CO6	-	

(Please ensure the conformity of the CO-wise marks allocation as per your TLEP.)

Bloom Taxonomy Levels given below for your ready reference:

L1= Remembering

L2= Understanding

L3= Apply

L4= Analyze

L5= Evaluate

L6= Create