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|  |  |  | Register Number:  Date: |
| **ST JOSEPH’S COLLEGE (AUTONOMOUS), BANGALORE-27** | | | | | |
| **BCA- 6TH SEMESTER** | | | | | |
| **SEMESTER EXAMINATION: APRIL 2024**  (Examination conducted in May / June 2024) | | | | | |
| **DAV02: VOCATIONAL 2 : POWER Bi**  **(For current batch students only)** | | | | | |
|  |  |  |  |
| **Time- 2 Hrs.** | |  | **Max Marks-60** | |
|  | |  |  | |

 **This question paper contains 2 printed pages and 3 parts.**

**PART A**

**Answer all the five questions. (2\*5=10)**

1. Differentiate between Sum and SumX DAX functions in Power Bi.
2. What are the primary business scenarios in which utilizing a funnel chart within Power Bi proves most beneficial for visualizing and analyzing data effectively?

### Name four popular types of filters available in Power Bi?

### What information is needed to create a map in Power Map?

1. Explain the use of DAX functions username() or userprincipalname() Within Power Bi Desktop and Power Bi service

**PART B**

**Answer any five of the following questions. (4\*5=20)**

### **6.** How do you optimize data model relationships for better performance?

7. Write the steps to create a calculated column.

1. Outline the process of directly importing a Power Bi visual from AppSource?

### How can you use DAX to handle data discrepancies and irregularities?

1. When sharing Power Bi reports with coworkers and others, what best practices should be followed?

### How are a Power Bi Dashboard and Report different from each other?

1. How are the various data sources connected to Power Bi categorized, and what are the three main types?

**PART C**

**Answer any three of the following questions. (10\*3=30)**

**13.** Explain any ten Features of Power Bi.

14. a. With a neat diagram explain the components of Power Bi Architecture. [7 Marks]

### b. What are the three fundamental concepts of DAX? [3 Marks]

15. What are the key considerations for developing a robust data modeling strategy

within Power Bi?

# 16. a. Define Data governance and explain the Elements of data governance. [5 Marks]

### b. What do you know about Row Level Security? And how do you implement it?

### [5 Marks]

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