PRESIDENCY UNIVERSITY BENGALURU

# SCHOOL OF MANAGEMENT MID TERM EXAMINATION - NOV 2023

Semester : Semester V - 2021 Course Code : BBB3030 Course Name : Sem V - BBB3030 - Application of Business Analytics Program : BBA Date : 3-NOV 2023 Time : 9:30AM - 11:00AM Max Marks : 50 Weightage : 25%

### Instructions:

- (i) Read all questions carefully and answer accordingly.
- (ii) Question paper consists of 3 parts.
- (iii) Scientific and non-programmable calculator are permitted.
- (iv) Do not write any information on the question paper other than Roll Number.

### PART A

	ANSWER ALL THE QUESTIONS	(5 X 2 = 10M)
1.	How does diagnostic analytics differ from descriptive analytics?	
		(CO1) [Knowledge]
2.	What is the focus of financial analytics?	
•		(CO1) [Knowledge]
3.	List two types of Marketing Analytics.	(CO1) [Knowledge]
4.	Can you identify common issues that lead to poor data quality?	
		(CO2) [Knowledge]
5.	How would you use data visualization tools to better interpret complex data s	sets?
		(CO2) [Knowledge]

## PART B

#### **ANSWER ALL THE QUESTIONS**

**6.** Demonstrate how to create a DataFrame from a 2D NumPy array. The array should have dimensions 2x3 with numbers 1 to 6. Label the columns as 'A', 'B', 'C'.

(CO2,CO3) [Application]

(2 X 10 = 20M)



- 7. Create a Python program to calculate the sales commission for employees in a retail store. The commission is determined based on the following conditions:
  - a. If the sales amount is below \$5,000, the commission rate is 2%.
  - b. If the sales amount is between \$5,000 and \$10,000, the commission rate is 5%.

c. If the sales amount is above \$10,000, the commission rate is 7%.

Also explain

d. What is the purpose of using if-else statements in Python?

(CO3,CO2) [Application]

## PART C

## **ANSWER THE FOLLOWING QUESTION**

8. Create a Python program that helps a retail store manager keep track of the available stock for different products. Your program should:

a. Use a list to store the names of 5 different products.

b. Use another list to store the respective quantities of these products.

c. Use a for loop to iterate through the list and display the products that have low stock (less than 5 items).

In addition to the code, answer the following theoretical questions:

## **Theoretical Questions:**

- d. What is the purpose of using a for loop in Python?
- e. How can for loops be beneficial in a business context?

(CO1,CO2,CO3) [Application]

# (1 X 20 = 20M)