PGDM- RM, 2021-23 Retail Analytics RM - 408

Trimester – IV, End-Term Examination: September 2022

Roll No:			
Time allowed: 2 Hrs	Max Marks: 40		

Instruction: Students are required to write Roll No on the cover page of the Answer Sheet. All other instructions on the question paper / Admit card should be followed meticulously.

Sections	No. of Questions to attempt	Marks	Total Marks
А	4 Questions	4* 5	20
В	Compulsory with 2 questions	2*10	20
			40

SECTION A – (5 marks * 4 questions) = 20 Marks

Q1. How can you eliminate outliers using box-plot?

OR (CO1)

Determine the outliers of the following two data sets A and B by using z-transformation

Q2. Suppose you want to purchase a smart phone. Develop a pair-wise comparison matrix with 4 attributes and find its consistency ratio.

OR (CO2)

Write the different steps to develop and solve AHP.

Q3. In a transactional database, Milk has been transacted 440 times, Bread has been transacted 310 times and both have been transacted 180 times. Find the followings

- a. Conf(Milk-> Bread)
- b. lift((Bread->Milk)

OR (CO3)

Define support, confidence and lift of two products A and B from a transactional database.

Q4. How maximum likelihood is estimated in logistic regression?

OR (CO3)

How a logistic regression is different from simple regression?

Section B (CO4)

- Q5. Determine all two-product lifts for the file **marketbasket-1.xls**. Using lift, optimise store layout.
- Q6. The file **logistic.xls** gives the age of customer subscribe or do not subscribe a magazine. How does the age influence the chance of subscribing? Explain through logistic regression.