SHRI RAMSWAROOD MEMORIAL UNIVERSITY

End Semester Examination (2021-22)-Odd Semester

MBA – I Year (I Sem)												
Course Name: Quantitative Techniques Code: MMG1010												
Time: 02 Hours	Max Marks: 60											
University Roll No.												

(To be filled by the Student)

Note: Please read instructions carefully:

- a) The question paper has 03 sections and it is compulsory to attempt all sections.
- b) All questions of Section A are compulsory; questions in Section B and C contain choice.

	tion A: Very			ype Qu	estions					BL	CLO	Marks (10)
1.	What do you	BL1	CLO1	02								
2.	What are th	BL1	CLO2	02								
3.	What are th	e applic	ations of	Bayes 1	theorem?)				BL2	CLO3	02
4.	How Kurtos	is helps	in under	standir	ng the ch	aracteris	tics o	of dat	a?	BL2	CLO1	02
5.	What do you	ı mean	by order	of a ma	trix? Dis	cuss witl	ı exaı	mple	•	BL1	CLO4	02
Section B: Short Answer Type Questions Attempt any 03 out of 05 questions.										BL	CLO	Marks (30)
1.	Calculate th	e mode	from the	followi	ng data.					BL2	CLO1	10
	x 10		11	12	13	14		15				
	f 8		10	16	20	4		2				
2.	How can we managerial		BL3	CLO2	10							
3.	The weekly the mean of	_			a compa	any is giv	en b	elow	. Find	BL2	CLO3	10
	Weekly earning in Rs	3000	3500	4000	4500	6000	800	00	8500			
	Number of Employees	100	200	150	100	150	50		10			
4.	With the he	-	BL2	CLO4	10							
5.	What are the differences between Normal Distribution and Poisson distribution?									BL2	CLO3	10
Section C: Long Answer Type Questions Attempt any 01 out of 03 questions.									BL	CLO	Marks (20)	
1.	1. Calculate Laspeyre's and Paasche's index numbers from the following data.										CLO2	20

	Commo	odity	Base year			r	Current year							
			Quai	ntity	Pric	e	Quanti	ty	Pric	ce				
	A		1	2	10		15		12	!				
	В		1.	5	7		20		5					
	С		2	4	5		20		9					
	D		5	;	15		5		14					
2.	A company is interested to understand the consumer behaviour and conducted a survey from 300 consumers by asking a question "Do you enjoy shopping?". Out of 300 respondents 200 were males and 100 were females. Out of 200 males, 120 responded "Yes" and out of 100 females, 70 responded "Yes". A respondent is selected randomly. Construct a probablity matrix and find out the probablity for followings: A. The respondent is male. B. The respondent enjoys shopping. C. The respondent is female and enjoys shopping. D. The respondent is male and does not enjoy shopping. E. The respondent is female or enjoys shopping.										BL4	CLO3	20	
3.	Data of sales revenue and advertising expenses of a company for last 10 years are given below:										ny for	BL3	CLO4	20
	Year	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020			
	Adv. Exp. (In Rs. Lakhs)	100	120	140	170	200	210	250	300	350	410			
	Sales Revenue (In Rs. Lakhs)	200	220	250	300	400	450	500	600	700	800			
	Obtain the regression equation of sales revenue on advertisement expenditure. Also estimate sales revenue if advertisement expenditure increases to Rs. 500 lakhs.													
