21U352S		(Pages	•	Name:			
	TUIDD CEMESTE	R B.B.A. DEGREE		leg. No:			
	THIRD SEMESTE	CUCBCS	ŕ	NOVENIDER 2022			
CC16	6U BB3 C03 – QUAN	,	*	SINESS MANAGEMENT			
	(0.1.5	(Complement	•				
Time	(2016 to Three Hours	2018 Admissions – Su	applementary/Impro	ovement)  Maximum: 80 Marks			
Time.	Timee Hours			With Milliam Of With Ka			
		Part					
		er <i>all</i> questions. Each	-				
2.	on, correlation is said to be						
3.							
4.	The Yates correction	on is generally applied	d when the numbe	er of degrees of freedom is			
_			CC	. 11 - 211 4 - 20			
5.	The regression coefficient and correlation coefficient of two variables will be the same, if						
6	their are same.						
_							
7.	The level of probability of accepting a true null hypothesis is called						
8.	(c) Level of acceptance (d) None of these  Normal distribution is						
0.	(a) mesokurtic		(c) platykurtic	(d) none of these			
9.	` '	(A) + P(B), then A an		. (a) none of these			
	(a) Dependent		(b) Independer	nt			
	(c) Mutually exclusi	ve (d)	None of these				
10	10. Mean of binomial distribution is						
	(a) np	(b) n+p	(c) n/p	(d) npq			
				$(10 \times 1 = 10 \text{ Marks})$			
		Part	В				
Answer any <i>eight</i> questions. Each question carries 2 marks.							
11	. Define Quantitative	Techniques.					
12	12. Define a random variable.						
13. Write a short note on scatter diagram							
14. Explain linear and Non-linear correlation.							
	. What do you mean b						
16	. 'Sampling is a neces	ssity under certain con-	ditions' Explain.				

- 17. What is chi-square test?
- 18. What is meant by Analysis of Variance?
- 19. Distinguish between one tailed and two tailed tests.
- 20. State the addition and multiplication theorem on probability.

 $(8 \times 2 = 16 \text{ Marks})$ 

## Part C

Answer any six questions. Each question carries 4 marks.

- 21. Explain the limitations of quantitative techniques.
- 22. Explain the different approaches to the Theory of Probability.
- 23. Distinguish between correlation and regression.
- 24. What are the properties of Normal distribution?
- 25. What is hypothesis testing? Enumerate the steps in testing of hypothesis?
- 26. Find the coefficient of correlation between X and Y and interpret the result.

- 27. For a Binomial Distribution, mean is 6 and Standard Deviation is  $\sqrt{2}$ . Find the parameters.
- 28. One bag contains 5 white and 3 black balls. Another contains 4 white and 6 black balls. One ball is drawn from each bag. Find the probability that both are of same colour.

 $(6 \times 4 = 24 \text{ Marks})$ 

## Part D

Answer any *two* questions. Each question carries 15 marks

- 29. The average life of 26 electric bulbs was found to be 1200 hours with a standard deviation of 150 hours. Test whether these bulbs could be considered as a random sample from a normal population with mean 1300 hours.
- 30. Explain the various methods of classifying quantitative techniques.
- 31. The following data present the number of units of production per day turned out by different workers using 4 different types of machines.

Worker	Machine Type			
	A	В	C	D
1	44	38	47	36
2	46	40	52	43
3	34	36	44	32
4	43	38	46	33
5	38	42	49	39

Test whether the mean productivity is the same for different machine types and also test whether 5 men differ with respect to mean productivity.

 $(2 \times 15 = 30 \text{ Marks})$ 

\*\*\*\*\*