G. VENKATASWAMY NAIDU COLLEGE (AUTONOMOUS), KOVILPATTI - 628 502.



UG DEGREE END SEMESTER EXAMINATIONS - APRIL 2025.

(For those admitted in June 2023 and later)

PROGRAMME AND BRANCH: B.Com., PROFESSIONAL ACCOUNTING

SEM	CATEGORY	COMPONENT	COURSE CODE	COURSE TITLE
III	PART – III	ELECTIVE GENERIC - 3	U23PA3A3	BUSINESS MATHEMATICS AND STATISTICS

Date &	& Sessio	n:26.04	l.2025 /AN	Time: 3 hou	I	Maximum: 75 Marks					
Course Outcome	Bloom's K-level	Q. No.	SECTION - A (10 X 1 = 10 Marks) Answer ALL Questions.								
CO1	K1	1.	If A is 25 less that a) 5/4	an B then what will b) 3/2		value of (2B-A) c) 3/4	/A? d) 5/	3			
CO1	K2	2.	Two ratio 384: 48 a) 3:5	30 in its simplest fo b) 5:4		 c) 4:5	d) 2:	5			
CO2	K1	3.	Calculate the sin years. a) 4000	pple interest if the post of t	-	e amount is 50 c) 40000	000 and the ra d) 40				
CO2	K2	4.		b) SI = PNR/100		SI = PTN/100	d) SI = PTR	/100			
CO3	K1	5.	The difference be a) Range	tween the highest a b) Mode		least number c) Median		Mean			
CO3	K2	6.	Which of the following is the measure of dispersion. a) Range b) Median c) Mean d) Mode								
CO4	K1	7.	The value of correlation coefficient is always a) +1 b) -1 c) 0 d) + or - 1								
CO4	K2	8.	If one of the regression coefficient is negative the other a) Must be negative b) must be positive c) Must be equal d) none of the above								
CO5	K1	9.	Index number is a a) Ratio b) Multiplier c) Divisor d) all of these								
CO5	K2	10.	A movement in the answer of the Amovement in the answer of the Amovement in the Amovement i	he time series that b) Seasonality	_	over a period o					
Course Outcome	Bloom's K-level	Q. No.		SECTION Answer <u>ALL</u> Ques		X 5 = 25 Mark hoosing eithe					
CO1	КЗ	11a.	Write the Types of	of Compounded Rat		P۱					
CO1	К3	11b.	Find the duplicate ratio of the following a) 4:9 b) 8:27 c) 2:3 d) 4:6								
CO2	КЗ	12a.	If Rs.450 amount to Rs,504 in 3 years at simple interest what will Rs.650 amount in 2 years and 6 months . the interest rate being the same in both case.								
CO2	КЗ	12b.	Find the amount	of compound inter	est on R		% for 3 years.				
CO3	K4	13a.	Calculate the me								
			X		-20	20-30	30-40	40-50			
			F	5	3 (01	10	8	9			
					(OI	N)					

CO3	K4	13b.	Calculate the Harmonic mean.									
			Value	lue 3		7		11	13		17	
			Frequenc	cy	3	11		19	8		4	
CO4	K4	14a.	Analyse the Difference between Correlation and Regression. (OR)									
CO4	K4	14b.	Calculate the rank Correlation.									
			Statistics (X) 93 75 65 50 80							80		
			Mathema	tics(Y)	85	60	60		40		90	
CO5	K5	15a.	Find a 4 Years moving Average from the following data									
			Year	1991	1991 1992 19		1994	1995	1996	1997	1998	
			Sales	301	454	393	414	424	464	466	492	
			(OR)									
CO5	K5	15b.				truct on in	dex for 2	015 takin	g 2016 as l	oase		
			Commodity 2015(Price)Rs. 2016(Price)Rs.								s.	
			A 100 140									
			B 80 120									
			C 160 180									
			D 220 240									
			E 40 40									
			Calculate Simple Aggregative Method.									
		1	l .									

Course Outcome	Bloom's K-level	Q. No.	$\frac{\text{SECTION} - C}{\text{Answer } \underline{\text{ALL }}} \text{Questions choosing either (a) or (b)}$											
CO1	КЗ	16a.	Write the Types of Proportion. (OR)											
CO1	К3	16b.	Monthly income of A and B are in the ratio of 5:6 and the expenses in the ratio of 4:5. If each sale Rs.200 per month. Find out the Income.											
CO2	K4	17a.	Find the principal if the difference between S.I and C.I is Rs.122 at 5% p.a in 3 years. (OR)											
CO2	K4	17b.	Analyse the types of Annuity.											
CO3	K4	18a.	Find the Quartile Deviation and Co- Efficient of Quartile deviation. 28,32,18,16,42,12,39 (OR)											
CO3	K4	18b.	Calculate the standard deviation from the following data											
			X	6	7		8	9		10	11	12		
			F	3	6		9	13	3	8	5	4		
CO4	K5	19a.	Find the Karl Pearson's co-efficient of correlation from the following data.											
			X	12	9		8	10		11	13	7		
Y 14 8 6 9)	11	12	13			
CO4	K5	19b.	Find the Re	gression E	quations		(OF	()						
			X	10	12	15		23	3]			
			Y	14	17	23		25	2	1				
CO5	K5	20a.	Calculate si	_	age relativ									
			Commodity			2000(Price)Rs.			2001Price)Rs.					
				A			60				130			
				B C			30			80				
				D		40 50					85 25			
				E 80						75				
							120	120 55						
CO5	K5	20b.		1 (11 :	D' 11	7	(OF	•	1 7	1				
200	110	200.	Construct t	he followin 2005	g Fixed b		ndex to		base In		2009	2010		
			FBI	150	18				160		2009	2010		
				100	1 10		120	_	100		400	210		