K. J. Somaiya Institute of Technology, Sion, Mumbai-22 (Autonomous College Affiliated to University of Mumbai)

May-June 2025

(B. Tech Program: COMPUTER Scheme II & Regular Examination: TY Semester: VI

Course Code: CEDLC6051 and Course Name: Quantitative Analysis

Date of Exam: 29/05/2025

Duration: 02.5 Hours

Max. Marks: 60

(1)A (2)D	uctions: Il questions raw neat dia ssume suital	grams wh	nerever app							
Q. No.	Question							Max. Marks	СО	BT level
Q 1	Solve any two questions out of three: (05 marks each)								20 11	
a)	Define sta	tistics. Ex		CO1	U					
b)	Calculate habits from		I when the	CO3	An					
	Age	20	21	22	23	24	25	en monte		
	No.of students	500	400	300	240	200	160	ili veg til	ern dwi	W S
	Regular Players	400	300	180	96	60	24		h Some	en mil
c)	Summaria		erinite	CO5	U					
Q 2								10		
a)	In 1985, out of total 2,000 workers of a factory, 1,500 workers were permanent. The number of women workers was around 300 out of which 200 were temporary. In 1986, the number of workers increased to 2,800 owhich 2,000 were men. On the other hand the number of temporary workers fell down to 250 of which 150 were women. Present the data in the form of an appropriate table						out of which ed to 2,800 of of temporary	Tribuy, av	CO2	Ap
b)	The simp yield(X2) partial cor	and rain		CO4	An					

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c)	12 students were given intensive coaching and 5 tests were conducted in a month. The scores of tests 1 and 5 are given. Do the scores from the 1 to 5 show an improvement?														CO6	Ap
	No. of stud ents	1	2	3	4	5	6	7	8	9	10	11	12	Addition of the date, and	io izon dies cali	
	1 st test	50	42	51	26	35	42	60	41	70	55	62	38			
	5th test	62	40	61	35	30	52	68	51	.84	63	72	50	alice profit	gas golde	
	The v	alue o	of r fo	r 11 d	egree:	s of fr	eedon	n at 5%	% leve	el of si	ignific	ance i	s 2.20	mo 4 Mari	eltigsid	
Q.3	Solve any two questions out of three. (10 marks each)							20	pp aids							
a)	Explain various methods in the collection of statistical data. Of these, which would you choose? Give reasons							these,		COI	U					
b)	Given the following data of marks in English and Maths of 5 students, estimate the likely marks in English of a student who has scored 15 marks in Maths.													CO3	An	
	Mar	ks in	Englis	h		10		14		16	2	0	15			
	Mar	ks in	Maths		201	30	e un	32	100	38	3.	5	40		tramina	
	1		ne exp nglish		mark	cs of	a stud	dent i	n Ma	ths w	no ha	s sco	red 18		7 m 2/1	
c)	What is hypothesis testing? Explain the process and types of errors in Testing hypotheses.								Sof to the	CO5	U					
Q.4	Solve any two questions out of three. (10 marks each)								20	4						

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a)	Draw a pie diagram for the followin outlays	CO2	Ap	
	Agriculture & Rural Development	12.9%		
	Irrigation	12.5%		
	Energy	27.2%		
	Industry & Minerals	15.4%	_	
	Transport & Communication	15.9%		
	Social services	16.1%		
	on a final examination to grades on	true animae airea d'		
	Costing X1, X2 and X3 the grades	of a student on the first quiz, second ectively, he made the following atts.		
