L	OYOLA COLLEGE	(AUTC	NOMO	DUS),	CHE	NNAI	- 60	0 034	
	B.Sc. DI	GREE	EXAMIN	VATIO	N – ST	ATIS	rics		
	FIFTH S	SEMEST	`ER – N	OVEM	BER 2	2015			
	ST 550	6/ST 5	502 - A	PPLIE	D STA	ATIST	ICS		
		pt. No.				М	lax. : 1	00 Mar	`ks
Time : 0	1:00-04:00	•							
		Ţ	PART – A	4					
Answer ALI	the questions:	-		-				(10 X	2 = 20)
1 11/1	·	-9							
	t is meant by Index number								
-	ain Deflating of index num		nathad						
	any two merits of moving ain additive model in time	-	neuroù.						
-	ne vital statistics.	501105.							
	ain crude birth rate.								
-	ne partial correlation.								
	any two properties of mul	tinle corre	lation						
	ne population census.		Jation.						
	e the applications of forest	statistics							
10. 111	e the applications of forest	statistics.							
		I	PART – I	3				(- - - - -	10)
Answer any	FIVE questions:							(5 X 8	= 40)
11 Expl	ain the construction of inde	ex number	rs with ill	lustratic	m				
-	ne Fisher's index number.				,				
	ain the components of time	•							
-	ribe moving average metho								
	ain any two methods of obt		tal statist	ics.					
-	ribe specific fertility rate a	-							
	rivariate distribution, $\sigma_1 =$				$r_{3} = r_{31} = r_{31}$	= 0.5 , f	ind b_{12}		
	ain De- Facto and De-Jure		, 12	,	, ,,	,			
				~					
PART – C Answer any TWO questions:								(2 X 2	0 = 40)
19. (a) E	xplain the optimum tests for	or index n	umbers a	nd show	w that a	n index	number	which s	atisfies
b	oth the tests.								
(b) D	escribe consumer price inc	lex numb	er. Also v	write the	e metho	ds of co	onstructi	on of the	e price
iı	ndex number.								
20. (a) F	it a straight line trend by th	e method	of least s	squares	to the f	ollowin	g data.		-
	Years	1970	1971	1972	1973	1974	1975	1976	
-	Profits	80	90	92	83	94	99	92	-
	(in thousand rupees)								

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- (b) Explain Ratio-to-trend method. Also write its advantages.
- 21. (a) Explain direct and indirect method of standardization.
 - (b) Describe Gross reproduction rate and net reproduction rate.
- 22. (a) Distinguish between partial and multiple correlation coefficients. Also state the properties of multiple correlation coefficient.
 - (b) Explain the following (i) write a detailed note on NSSO and (ii) Agricultural statistics.

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