## FIRST QUARTERLY TEST AUGUST 2024

	ASS: II PUC IE: 1 Hr. 30 Mins.	- oč	DI .	00	21	-35		5	unio VI
1) S 2) S 3) A	ructions: tatistical tables and gra- cientific calculators are Il working steps should only the first written and	allowed. be clearly	shown.			n-A.		ear price d year pr ute Four	
,				TION-A					
[ ])	Choose the correct ar The fertility rate used to a) GFR		the cho	ices giv	en:		s :	FR <sup>VIII</sup>	3x1
2)	Circular test is satisfied a) Marshal-Edgeworth's	The state of the s	of:	Reprod	c) Kelly's	S-19 2		rbish-Bo	
3)	"Fall in death rate due to a) Secular trend	o advance in b) Seasona			ciated wi			nt of time l) Irregula	
I	Match the following:								3x1
	Δ		В						
(1)	Life tables		st square	method					
()	Base period		r for which	-					
)	Fitting of straight line		nomically vival patte						
			200	2.07					
П	Fill in the blanks by control (cost of living index,				eration	method	]		2x1
	[cost of living index,	Time serie	s, Censu	s enum	eration	method	]	ets:	
7)	[cost of living index, fails to produc	Time serie	ntercensa	l years.	eration	method	I To 3K		
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17) Calculate the cost of living index number form the following data and comment on the result.

Items	Food	Rent	Clothing	Fuel	Others
Weights	35	15	20	10	20
Base year price (Rs)	250	150	200	120	160
Current year price (Rs)	275	260	225	125	190

18) Calculate Four yearly moving averages for the following data and comment. 2021 2011 10 (E

Year	1991	1992	1993	1994	1995	1996	1997	1998
Sales	670	680	692	700	715	700	750	825

## VII Answer any ONE of the following questions:

1x5=5

19) From the data given below compute Net Reproduction Rate and comment on the result.

Age group:	15-19	20-24	25-29	30-34	35-39	40-44	45-49
Female population:	1390	1422	1521	1756	1451	1689	1667
Female births:	поі 15	95	103	75	18V 320	HISeas	01
Survival rate	0.96	0.96	0.96	0.95	0.95	0.94	0.92

20) Fit a straight line trend to the following data by least squares method. Also estimate the exports for the year 2024.

Year	2017	2018	2019	2020	2021	2022	2023
Exports	47	50	53	65	62	64	72

## [cost of living index, Time serie G-NOITD32 meration method]

## VIII Answer any ONE of the following questions:

1x10=10

21) Calculate Standardised Death Rates from the following data and write your conclusion.

Age	Standard	City	A	City B		
(in years)	Population	Population	Deaths	Population	Deaths	
Below 10	6000	4000	32	12000	120	
10-30	8000	5000	20	13000	78	
30-50	7000	6000	48	15000	105	
50 and above	5000	4000	72	10000	180	

22) The price and quantities of five commodities are given below. Test whether Fisher's Ideal index satisfies both Time Reversal Test and Factor Reversal Test.

Commodities	Base	Year	Current Year		
	Price (Rs)	Quantity	Price (Rs)	Quantity	
A	10	05	Jan 15	05	
B	05	10	05	p m12 rolle	
mun Carava	calc 80 te the	02104	10	05	
D	12	05	15	05	
Е	06	15	12	10	
	0022 00	2500 240	000 1900	-5300 46	

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