* # *	LOYOI		COLL	EGE) (AU	J TO	NOM	IOU	S),	, CI	HENN	AI -	- 60	0 ()34
((CQ)))			B. <i>A</i>	A. DE	GRE	E EXA	MINA	ATIOI	V –	ECO	ONOMI	CS			
	ξ.		THIF	RD SH	EMES	STER	– NC	OVEI	MB	ER	2018				
LUCEAT LUX VESTRA	8	EC	3502	– QU	ANT	ITAT	IVE '	гоо	LS	FO	R ECC	NO	MICS	•	
	23-10-2018 01:00-04:0		Ι	Dept.	No.]	Max.	: 1	00 Mark
iswer an	y FIVE quest	ions	from th	e follo	owing		rt A						[5x4=	=20r	narks]
 Dis 3. Wr 4. The 	fine Statistics. tinguish betwee ite a note on dif e following data	fferen a shov	t Measu w the nu	res of umber	Centra	al Tenc	lency.) fami	lies	in a	hospital	in			
(one year. Draw				2	4	5	6	7	0					
	No: of c			1 2	3	4	5	6	7	8	_				
5. De	No: of f			$\frac{2}{18}$		10	13	22	9	11					
swer an 8. Dis 9. Dra 3	hat is meant by by FOUR quest cuss the uses of tw a Histogram your graph whice	stions f inde of th	s from t ex numb e follow	ers. ving fre	quenc	g: cy distr						-	4x10=	-40n	narks]
	19-32 years:		14- 15	16-	17	18-20	21-2	24	25 -2	20	30-34	35-	20		
	Age Group : : of wage		14-15	10-	L/ .	18-20	21-2	24 2	25 -	-29	30-34	33-	-39		
	mers		120	14	0	150	11	0	11(0	100	9	0		
	culate by step of Obtained by stud				e arith	nmetic	mean (of the	follo	owin	g marks				
	Marks	5	10	15	20	25	30	35	4	40	45	50			
	No: of students	20	43	75	67	72	45	39		9	8	6			
11. Fol	lowing are the	marks	s obtaine	ed by t	wo stu	idents .	A and	B in t	vo s	sets o	of examin	natior	1:		
	Sets	1	2		3	4	5	6		7	8	9	1	0	
	A's marks	44	80)	76	48	52	72	2	68	56	60	6	4	
	B's marks	48	75	5	54	60	63	6)	72	51	57	5	6	
	f the consistenc Prize?	cy of j	perform	ance is	the ci	riterion	for av	vardin	g th	e pri	ze, who	shoul	d get t	he	

12. Calculate Karl Pearson's coefficient of Skewness for the following data:

Χ	0	1	2	3	4	5	6	7
F	12	17	29	19	8	4	1	0

13. Draw a Pie diagram to represent the following data of Investment pattern in the Five year Plan:

Agriculture & Community	
Development	14%
Irrigation & Power	16%
Industries & Minerals	29%
Transport & Communications	17%
Social Services	16%
Inventories	8%

14. Explain the analysis of time series.

Part C

Answer any **TWO** questions from the following:

15. Elaborate the nature, functions and limitations of statistics.

16. Calculate Mean, Median and Mode for the following data:

AGE	No. of People	AGE	No. of People
55-60	7	35-40	30
50-55	13	30-35	33
45-50	15	25-30	28
40-45	20	20-25	14

17. Calculate Karl Pearson's correlation coefficient between the marks in economics and statistics obtained by 10 students:

	Marks in Economics(X)	10	25	13	25	22	11	12	25	21	20
	Marks is Statistics (Y)	12	22	16	15	18	18	17	23	24	17
(Assu	(Assumed mean for the values of X and Y are 18 and 18 respectively)										

Calculate Laspeyre's, Paasche's and Fisher's indices for the following data. Also examine which of the above indices satisfy (1) Time reversal test.
 Factor reversal test.

	Bas	se Year	Current Year			
Commodity	Price (Po)	Quantity (Qo)	Price (P1)	Quantity (Q1)		
Р	6.5	500	10.8	560		
Q	2.8	124	2.9	148		
R	4.7	69	8.2	78		
S	10.9	38	13.4	24		
Т	8.6	49	10.8	27		

[2x20=40marks]