]	LOYOLA COL	LEGE (AUTO	NOM	ous	s), C	HENNA	AI – 6	00 034			
B.Com.DEGREE EXAMINATION -CORPORATE SECRETARYSHIP												
		FIRST	SEMES	TER -	- API	RIL 2	2018					
	CO	1104– FI	JNDAM	ENTA	ls c)FS1	TATIST	ICS				
LUCEAT LUX VESTRA												
Date: 28-0	4-2018	Dept.	No.					M	ax. : 100 Marks			
Time: 09:0	0-12:00											
Answer the	following:		SEC	TION	A		10 x	2 = 20				
1. What ar	e the types of Corre	elation?										
2. State the	e regression equatio	n of X on	Y and Yo	on X.								
3. State the	e merits of graphic	method.										
4. What is	Time Series?											
5. What is	Primary Data?											
6. What is	Bar Diagram?											
7. Calcula	te the mean-60,61,6	2,63,64,65	5,66,70.									
8. Find the	e Median -35,36,32,	34,45,46,3	9.									
9. The me	an of 200 items is 6	0 totals on	it were d	iscove	red th	at 182	e were wro	ongly				
taken as 82, f	find the correct mea	n.										
10. Calcula	te the Quartile Devi	ation -35,1	6,23,18,2	27,58,4	0.							
Answer any	FOUR of the follo	wing.	SEC	TION	B				4 x 10 - 40			
11. Explain	the Components of	a Time Se	eries.						- A IV 10			
12. Disting	uish between Prima	rv data and	Seconda	rv data	1.							
13. Explain	the various measur	es of Cent	al Tende	ncv.								
14. Find the	e correlation coeffic	ient.										
	X	12	9 8	3	10	11	13	7				
	Y	14	8 6	5	9	11	12	3	_			
15. Using th	hree yearly moving	averages d	etermine	the tre	nd an	d shor	rt-termFlu	ctuation	ns.			
	Year	1968	1969	197	0 1	971	1972					
		<u> </u>	• •									
	Production(tonnes	s) 21	22	23		25	24					
	Year	1973	1974	197	5 1	976	1977					

Production(tonnes)

16. Calculate the Harmonic mean for the following data.

X	10	12	14	16	18	20
f	5	18	20	10	6	1

17. Find the Quartile Deviation and its Coefficient for the following distribution:

Class Interval	0-10	10-20	20-30	30-40	40-50	50-60
Frequency	8	20	25	30	12	5

18. Construct a Histogram and Frequency Polygon from the data given below:

Income (in 000's)	0-5	5-10	10-15	15-20	20-25	25-30
No. of Employees	15	20	25	40	50	20

SECTION C

Answer any TWO of the following:

$2 \ge 20 = 40$

19. Calculate the Regression Equations of X on Y and Y on X from the following data and estimate X

when Y=26 and Y when X=35. Also calculate the Coefficient of correlation.

X	10	12	13	17	18	20	24	30
Y	5	6	7	9	13	15	20	21

20. Calculate Mean, Median and Mode and verify empirical relation:

Class Interval	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80
Frequency	87	65	43	62	36	40	25	30

21. Ten competitors in a beauty contest are ranked by three judges in the following order:

J1	6	2	4	5	8	1	7	9	10	3
J2	5	1	3	6	7	2	9	10	8	4
J3	7	3	5	4	6	1	8	9	10	2

Use Spearman's rank correlation method to determine which pair of judges has the nearest Approach.

22. From the following data, find out which share is more stable in its value.

[Х	36	55	52	53	58	60	48	50	40	49
-	Y	108	107	105	105	102	108	104	103	107	101
