

Re	eg. N	No. :								
Na	ame	ng data: (Base:2008):					arec			Prepare
		Fourth Semester B.Com. LL.B. (I				The same of the sa	grat 09	ed)	Degre	Year 9
		Paper - III: BUSINE	SS	STA	TIS	TIC	S	itali		A proble
Tim		is the probability that the problemoH E (4x5=24 Marks)	tsri/				1 4			larks: 80
À	1) 2) 3) 4) 5) 6)	swer any five of the following. Each of Define tabulation. What do you mean by distrust of statist What are equally likely events? Define systematic sampling. What is time series graph? What are the main methods of calculations the uses of trend.	stics	? =	sluo	ent	nominate in the second	o gn l 190 sq a smo	iwollot of hones in one of hones in other of hones are also and a lation?	
II.	1) 2) 3) 4)	Swer any four of the following. Each of Distinguish between census and same What are the utility of diagrams? Explain the methods to construct Confinition Distinguish between seasonal variation From the data given below, find the next $x = 0.5$ $x = 120$ $x = 120$ $x = 120$ (Where x and y are deviations from an	sum ons a umb oy =	er P and c er of	od. rice cyclic iter	Inde	ex n	umk	er. 1000 is. 1000 (4×4=1	ni enited pilot ent enimexe 6 Marks)
III.	1)	Define statistics. Explain its important Goals scored by two teams in a footb	ce.							
		No. of matches played by Team A	-	10	7	5	3	2	42	
		No. of matches played by Team B	20	10	5	4	2	1	42	

Calculate CV and state which team is more consistent?

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- 3) What are various kinds of correlation?
- 4) Prepare index numbers from the following data. (Base 2008)

Year	2008	2009	2010	2011	.2012	2013	2014	2015
Price	67	90	9100	92	. 87 sn	88	89	90

- 5) A problem in statistics is given to five students A, B, C, D, E. Their chances of solving it are  $\frac{1}{2}$ ,  $\frac{1}{3}$ ,  $\frac{1}{4}$ ,  $\frac{1}{5}$  and  $\frac{1}{6}$ . What is the probability that the problem will be solved? (4×6=24 Marks)
- IV. Answer any three of the following. Each carries 10 marks.
  - From the following data, calculate the mean, median and modal number of mobile phones per home.

Mobile phones per home	1	2	3	4	5	60	si <b>7</b> ie1	8
No. of homes	26	113	120	95	60	42	21	14

2) Determine the period of the moving average for the following data and calculate moving average for that period.

Year	1	2	3	4	5	6	76	8	9	10	di <sup>1</sup> e	12	13	14	15
Value	130	127	124	135	140	132	129	127	145	158	153	146	145	164	170

- 3) Define index numbers. Explain its uses and limitations. To villing and sas partial (S
- 4) The following results were declared in subject A and subject B in degree (8 examination. anothers Isologo bus a

	Scores in subject A (X)	Scores in subject B
Mean	(ne30 <sub>n pitematin</sub>	s most ano 40 wah ass
S.D.	10	20

Karl Pearson's coefficient of correlation between X and Y = 0.4. Find the regression lines. Using these lines, estimate the value of Y for X = 40 and estimate the value of X for Y = 20. (3×10=30 Marks)