2018

(6th Semester)

COMMERCE

Paper No.: BC-603

(Business Statistics)

Full Marks: 70 Pass Marks: 45%

Time: 3 hours

(PART : B—DESCRIPTIVE) (Marks : 45)

The figures in the margin indicate full marks for the questions

 (a) State and explain the characteristics of statistics and also support your answer with the importance of statistics. 5+4=9

Or

- (b) Give the meaning of tabulation. Explain the major objectives of tabulation. 2+7=9
- (a) Calculate the SD from the following data:

Class Interval : 5-15 15-25 25-35 35-45 45-55 Frequency : 8 12 15 9 6

8L/502a (Turn Over)

Or

(b) Calculate Karl Pearson's coefficient of correlation from the following data:

Price : 22 24 26 28 30 32 34 36 Demand : 60 58 50 50 48 48 46 42

3. (a) Calculate quantity index number from the following data by using Fisher's ideal method:

Commodity	Unit	20	005	2007		
Commonly	Onit	Qty	Price	Qty	Price	
Wheat	kg '	3	10	4	14	
Milk	lit	4	15	4	16	
Rice	qtl	6	12	7	18	
Fish	kg	2	20	3	25	
Sugar	kg	3	10	4	12	

Or

- (b) State some uses of index number and also explain the problems involved in the construction of index number. 4+5=9
- (a) Discuss the various types of forecasting.

O

(b) The number of units of a product exported during 2000 to 2007 is given below. Fit a straight line trend to

8L/502a

(Continued)

the data and find the estimate for the year 2008:

Year : 2000 2001 2002 2003 2004 2005 2006 2007 No. of Units : 12 13 13 16 19 23 21 23

 (a) State some objectives of sampling and discuss the various methods of sampling. 3+6=9

Or

(b) The probability that a contractor will get a plumbing contract is 2/3 and the probability that he will not get an electric contract is 5/9. If the probability of getting at least one contract is 4/5, what is the probability that he will get both the contracts?

2018

(6th Semester)

COMMERCE

Paper No.: BC-603

(Business Statistics)

(PART : A—OBJECTIVE) (Marks : 25)

The figures in the margin indicate full marks for the questions

Answer all questions

1.	Put	a Tick (/) mark against the correct answer	in the
	bra	ckets provided :	1×10=10
	(a)	In the development of statistical methods	s, the

(i)	economists	()	
(ii)	mathematicians			. ()
(iii)	businessmen		()	

(b)		fficient of formula	quartile	deviation	is	calculated	by
	(i)	Q_2+Q_1	()			

(ii)
$$\frac{Q_3 + Q_1}{2}$$
 (iii)

(iii)
$$\frac{Q_3 - Q_1}{Q_3 + Q_1}$$
 ()

(iv)
$$\frac{Q_2 + Q_1}{Q_3 - Q_1}$$
 ()

(c)	Factor	reversal	test	is	suggested	by

		400
(ii)	Laspeyres	()
1.77	mero Produce	

			932
61	circular test	- (- 1
145	CHICKIAL COST	9.4	

(e)	arc	ollected, re ements." W	cord	ed,	obs	erv	ed c	ver s	uccess	
	(i)	Morris Har	nbur	g		()			
	(ii)	Ya-Lun Ch	ou		()				
	(iii)	Patterson		()					
	(iv)	Levin and	Rubi	n		()			
(f)	for	ch is the arriving a rements of ti	at (estin	nat					
	(1)	Residual n	etho	od		()			
	(ii)	Direct met	hod		()				
	(iii)	Reference	cycle	ana	lys	is n	neth	nod	()
	(iv)	Harmonic	anal	ysis	me	tho	d	()	
(g)		help in								
	(i)	Tables	()						
	(ii)	Circles	()						
	(iii)	Graphs	()						
	(iv)	Diagrams		()					

(h)	ass	classical schoo umes that all eriment are	ol of to possi	houg ble	ht o	on pr	obab of	ility an
	(i)	equally likely	()				
	(ii)	mutually exclu-	sive	()			
	(iii)	mutually exclus	sive an	d equ	ally	likely	у ()
	(iv)	None of the abo	ve	()		á	
(i)	B	litional theorem s are mutually ex urrence of A and	cclusiv	e, ti	he p			
	(i)	P(A) + P(B)	()				
	(ii)	$P(B) \times P(A)$	()				
	(iii)	P(A)-P(B)	()				7
	(iv)	$P(A) \times P(B) + B$	P(AB)		1	1		

<i>(i)</i>	for The in I	students are analysing to investigato his opinion at type of s estigator?	he s r wo are	pend uld s repre	ing l select	habits of 10 strative o	of stud idents, f the c	ents. who lass.	
	(i)	Probability		()				
	(ii)	Convenience	ce	()				
	(iii)	Quota	()					
	(iv)	Judgement		()				
Fal		whether the	follo	owing	g stat		are Tr	ue or	i=5
(a)		notion of n the word			was	origin	ally de	rived	٠
		True	()	False	. (.)	

(b)	Regression coef the changes in change in Y.					
	True	()	False	()
(c)	Secular trend ref	ers to	the lon	ng-term mo	veme	nt.
	True	ſ)	False	()
(d)	The process of sp for increase in p			d to adjust	the d	lata
	True	()	False	()
(e)	The probability throw of two die		STATE OF THE PARTY	a 3 and	a 4 i	n a
	True	()	False	()

3. Write short notes on the following :

2×5=10

(a) Statistics

(b) Scatter diagram

(c) Deflating

(d) Link-relative method

(e) Probability
