

### PAPER - 3

## FUNDAMENTALS OF BUSINESS MATHEMATICS AND STATISTICS

**Time Allowed: 1 Hour** 

Full Marks: 100

Answer all questions. Each question carries 2 marks.

1.	For an	event Oc	lds in favour are	"five to two" T	This means that:					
	(a)	In a tota	l of seven trials	the event will o	occur five times		0			
	(b)	In a tota	l of seven trials	the event will o	occur two times		0			
	(c)	In a tota	l of five trials th	ne event will occ	cur two times		0			
	(d)	In a tota	l of seven trials	the event will n	ot occur five tin	nes	0			
2.	X = 1.36Y - 5.2 & $Y = 0.61X + 1.51$ are two regression equations. Correlation									
	coeffic	cient betw	veen is:							
	(a)	-0.67					0			
	(b)	- 0.911					0			
	(c)	0.911					0			
	(d) 0.67						0			
	****									
3.	With r									
	(a) Diagrammatic presentation is preferable to Tabular presentation						0			
	(b)	Textual presentation is preferable to diagrammatic presentation								
	(c)	Tabular presentation is preferable to Diagrammatic presentationTextual presentation is preferable to Tabular presentation								
	(d)	Textual	presentation is j	preferable to Ta	bular presentatio	on	0			
4.	From t	the following find the Fisher's Quantity index:								
		tem	Base Year (₹)		Current Year (₹)					
			Unit Price	Quantity	Unit Price	Quantity				
		A	8	6	12	5				
		В	10	5	11	6				
		С	17	8	8	5				
	(a)	32.76					0			
	(b)	72.34					0			
	(c)	78.12					0			
	(d)	12.74					0			
5.	Probat	oility theo	ory is often refer	red to as						
	(a)	Science	of prediction				0			
	(b)	Science	of uncertainty				0			

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	(c)	Science of chance			0	
	(c) (d)	Science of decision	2 making		0	
	(u)		ппакти		0	
6.	In a hi	voriata analyzia if t	vo regression equations of	re mx - y + 10 = 0 & -2x + 10 = 0 = 0 = -2x + 10 = 0 = -2x + 10 = 0 = 0 = -2x + 10 = -2x + 10 = 0 = -2x + 10 = -2x +		
0.		-		•		
			orrelation between $x \& y$ is	s $1/\sqrt{10}$ , then value of <i>m</i> is:		
	(a)	10			0	
	(b)	5/2			0	
	(c)	4			0	
	(d)	1			0	
7.	The pr infer th	•	ents A and B are 0.05 and	d 0.95 respectively. We can		
	(a)	Event A is more pr	obable to happen		0	
	(b)	Event B is more improbable to happen				
	(c)	Event B is more probable to happen				
	(d)	Event A & B are st	are to happen		0	
8.	From the following find the Simple average (GM) of Relative Quantity index:					
		Item	Base Year Quantity	Current Year Quantity		
		А	8	12		
		В	10	11		
		С	15	10		
	(a)	100.23			0	
	(b)	111.45			0	
	(c)	190.15			0	
	(d)	103.23			0	
9.	215, Σ	dxdy = -4360 Appr	sults $N = 12$ , $\Sigma dx = 0$ , $\Sigma dy$ opriate regression coeffici	$y = 4$ , $\Sigma dx^2 = 1344$ , $\Sigma dy^2 =$ ent is:		
	(a)	-0.821			0	
	(b)	1			0	
	(c)	5.67			0	
	(d)	-3.244			0	
10.	Classi	cal probability is bas	sed on the assumption that			
	(a)	The outcomes of a	n experiment are already k	known	0	



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	(b)	The probabi	lity of an outcome	of an experiment is a	lways 0.5	0				
	(c)	The probabi	lity of all outcomes	in an experiment is	always 1	0				
	(d)	The outcom	es of an experiment	t are equally likely		0				
11.	In IPL	Kolkata Knig	ght Riders plays 70°	% of their games at 1	night (8 O'clock slot)					
	and 30	% during the	day (4 O clock slot)	. The team wins 50%	of their night games					
	and 90	% of their day	games. According	to today's newspape	r they own yesterday.					
	The pr	obability that	the game was play	ed at night is:						
	(a)	0.4667				0				
	(b)	0.5645	0.5645							
	(c)	0.35				0				
	(d)	0.5	0.5 O							
12.	Consid	ler the follow	ing:							
	Co	ommodity	Base Price (₹)	Current Price (₹)	Weight					
		А	22	45	8					
		В	15	15	6					
		С	80	90	7					
	D		110	130	3					
		E	25	30	5					
	Weigh	ted aggregativ	ve index number is							
	(a)	123.34				0				
	(b)	156.11				0				
	(c)	176.52				0				
	(d)	142.89				0				
13.	Consid	ler the follow	ing:							
15.		ommodity	Base Price (₹)	Current Price (₹)	Weight					
		A	22	45	8					
		B	15	15	6					
		С	80	90	7					
		D	110	130	3					
		Е	25	30	5					
	Weigh	ted A.M of pr	rice relative index n	umber is:						
	(a)	123.34				0				
	(b)	128.79				0				
	(c)	130.92				0				

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<ul> <li>(a)</li> <li>(b)</li> <li>(c)</li> <li>(d)</li> <li>Sun w</li> </ul>	+1 -0.2 -1 -0.4 rill di	$b_{XY} = 5$		lue sky							0 0 0 0 0 0
(a) (b) (c) (d) Sun w z belie nis evec (a) (b)	+1 -0.2 -1 -0.4 fill di ef wh ent? 0.2	5 isappea	r from b	lue sky							0
(a) (b) (c) (d) Sun w z belie nis evec (a) (b)	+1 -0.2 -1 -0.4 fill di ef wh ent? 0.2	5 isappea	r from b	lue sky							0
(c) (d) Sun w z belie nis eve (a) (b)	-1 -0.4 rill di ef wh ent? 0.2	5 isappea		•	today fo						0
(d) Sun w z belie nis eve (a) (b)	-0.4 rill di ef wh ent? 0.2	isappea		•	today fo						
Sun w z belie nis eve (a) (b)	rill di ef wh ent? 0.2	isappea		•	today fo						0
z belie nis eve (a) (b)	ef wh ent? 0.2			•	today fo						
z belie nis eve (a) (b)	ef wh ent? 0.2			•		orever".	With o	ur availa	able info	ormation	
(a) (b)	0.2			IOHOW	-					bility to	
(b)	-										
` /	0.8										0
(c)	0.0										0
(•)	1										0
(d)	0										0
rom tl	he fo	llowing	g data th	ne five y	ear mov	ving ave	erage ag	ainst ye	ar 5:		
Year	S	1	2	3	4	5	6	7	8	9	
Sales	(₹)	36	43	43	34	44	54	34	24	14	
(a)	40										0
(b)	43.6	5									0
(c)	34										0
(d)	41.8	3									0
epend	ent v	variable	-	•							
(a)											0
(b)	-	•									0
			oint								0
(u)	Scal	iterea p	onit								0
0.6 ii	nch f	rom the	e averag	e rainfa							
(a)											0
(b)											0
(c)											0
(d)	1.5	inch									0
	Yean Sales (a) (b) (c) (d) (a) (b) (c) (d) (c) (d) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	YearsSales (₹)Sales (₹) <tr< td=""><td>Years1Sales (₹)36(a)40(b)43.6(c)34(d)41.8abivariateregendent variable(a)Outlier(b)Slope(c)Residual(d)Scattered p(c)Residual(d)Scattered p(c)Residual(d)Scattered p(c)a(c)10.6(c)10.6(c)10.6(c)2.4(c)2.1(c)2.1(c)2.1(c)2.1</td><td>Years12Sales (₹)3643(a)40(b)43.6(c)34(d)41.8abivariate regressionependent variable and the(a)Outlier(b)Slope(c)Residual(d)Scattered point(a)Outlier(b)Slope(c)Residual(d)Scattered point(a)0.6 inch from the average(b)0.6 inch from the average(a)2.4 inch;(b)0.3 inch;(c)2.1 inch;</td><td>Years123Sales (<math>\overline{x}</math>)364343(a)40(b)43.6(c)34(d)41.8abivariate regression analysependent variable and the predict(a)Outlier(b)Slope(c)Residual(d)Scattered point(a)Outlier(b)Slope(c)Residual(d)Scattered point(a)Qual and the average rainfange rainfall on Sunday was-(a)2.4 inch;(b)0.3 inch;(c)2.1 inch;</td><td>Years1234Sales (₹)36434334(a)40(b)43.6(c)34(d)41.8abivariate regression analysis, thependent variable and the predicted value(a)Outlier(b)Slope(c)Residual(d)Scattered point(a)Outlier(b)Slope(c)Residual(d)Scattered point(a)2.4 inch;(b)0.3 inch;(c)2.1 inch;</td><td>Years12345Sales (<math>\overline{x}</math>)3643433444(a)40(b)43.6(c)34(d)41.8abivariate regression analysis, the difference of the second structure o</td><td>Years123456Sales (<math>\mathfrak{F}</math>)364343344454(a)40(b)43.6(c)34(d)41.8(a)0utlier(a)Outlier(b)Slope(c)Residual(d)Scattered point(a)0utlier(b)Slope(c)Residual(d)Scattered point(eause of heavy rain on Sunday average rainfall of a cit0.6 inch from the average rainfall 0.3 inch measured from the rainfall on Sunday was-(a)2.4 inch;(b)0.3 inch;(c)2.1 inch;</td><td>Years1234567Sales (<math>\overline{x}</math>)36434334445434(a)40(b)43.6(c)34(d)41.8(a)0(a)0(a)0(b)50 pe(c)Residual(d)50 pe(e)8 cattered point(a)0(b)10 cattered point(c)10 cattered point(c)10 cattered point(c)10 cattered point(c)10 cattered point(c)10 cattered point(c)10 cattered point(c)2.4 inch;(b)0.3 inch;(c)2.1 inch;</td><td>Sales (<math>\overline{x}</math>)3643433444543424(a)40(b)43.6(c)34(d)41.8(e)a(f)a(f)<td< td=""><td>Years123456789sales (<math>\overline{\mathbf{x}}</math>)364343344454342414(a)40(b)43.6(c)34(d)41.8(e)34(f)41.8(g)0utlier(h)Slope(c)Residual(d)Slope(e)Residual(f)Scattered point(g)Scattered point(g)2.4 inch;(g)2.4 inch;(h)0.3 inch;(c)2.1 inch;</td></td<></td></tr<>	Years1Sales (₹)36(a)40(b)43.6(c)34(d)41.8abivariateregendent variable(a)Outlier(b)Slope(c)Residual(d)Scattered p(c)Residual(d)Scattered p(c)Residual(d)Scattered p(c)a(c)10.6(c)10.6(c)10.6(c)2.4(c)2.1(c)2.1(c)2.1(c)2.1	Years12Sales (₹)3643(a)40(b)43.6(c)34(d)41.8abivariate regressionependent variable and the(a)Outlier(b)Slope(c)Residual(d)Scattered point(a)Outlier(b)Slope(c)Residual(d)Scattered point(a)0.6 inch from the average(b)0.6 inch from the average(a)2.4 inch;(b)0.3 inch;(c)2.1 inch;	Years123Sales ( $\overline{x}$ )364343(a)40(b)43.6(c)34(d)41.8abivariate regression analysependent variable and the predict(a)Outlier(b)Slope(c)Residual(d)Scattered point(a)Outlier(b)Slope(c)Residual(d)Scattered point(a)Qual and the average rainfange rainfall on Sunday was-(a)2.4 inch;(b)0.3 inch;(c)2.1 inch;	Years1234Sales (₹)36434334(a)40(b)43.6(c)34(d)41.8abivariate regression analysis, thependent variable and the predicted value(a)Outlier(b)Slope(c)Residual(d)Scattered point(a)Outlier(b)Slope(c)Residual(d)Scattered point(a)2.4 inch;(b)0.3 inch;(c)2.1 inch;	Years12345Sales ( $\overline{x}$ )3643433444(a)40(b)43.6(c)34(d)41.8abivariate regression analysis, the difference of the second structure o	Years123456Sales ( $\mathfrak{F}$ )364343344454(a)40(b)43.6(c)34(d)41.8(a)0utlier(a)Outlier(b)Slope(c)Residual(d)Scattered point(a)0utlier(b)Slope(c)Residual(d)Scattered point(eause of heavy rain on Sunday average rainfall of a cit0.6 inch from the average rainfall 0.3 inch measured from the rainfall on Sunday was-(a)2.4 inch;(b)0.3 inch;(c)2.1 inch;	Years1234567Sales ( $\overline{x}$ )36434334445434(a)40(b)43.6(c)34(d)41.8(a)0(a)0(a)0(b)50 pe(c)Residual(d)50 pe(e)8 cattered point(a)0(b)10 cattered point(c)10 cattered point(c)10 cattered point(c)10 cattered point(c)10 cattered point(c)10 cattered point(c)10 cattered point(c)2.4 inch;(b)0.3 inch;(c)2.1 inch;	Sales ( $\overline{x}$ )3643433444543424(a)40(b)43.6(c)34(d)41.8(e)a(f)a(f) <td< td=""><td>Years123456789sales (<math>\overline{\mathbf{x}}</math>)364343344454342414(a)40(b)43.6(c)34(d)41.8(e)34(f)41.8(g)0utlier(h)Slope(c)Residual(d)Slope(e)Residual(f)Scattered point(g)Scattered point(g)2.4 inch;(g)2.4 inch;(h)0.3 inch;(c)2.1 inch;</td></td<>	Years123456789sales ( $\overline{\mathbf{x}}$ )364343344454342414(a)40(b)43.6(c)34(d)41.8(e)34(f)41.8(g)0utlier(h)Slope(c)Residual(d)Slope(e)Residual(f)Scattered point(g)Scattered point(g)2.4 inch;(g)2.4 inch;(h)0.3 inch;(c)2.1 inch;



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19.	In gen	eral probability is:	
	(a)	A numerical value between 0 and 1, exclusive, describing the absolute	0
		possibility an event will occur	
	(b)	A numerical value between 0 and 1, inclusive, describing the absolute	0
		possibility an event will occur	
	(c)	A numerical value between 0 and 1, exclusive, describing the relative	0
		possibility an event will occur	
	(d)	A numerical value between 0 and 1, inclusive, describing the relative	0
		possibility an event will occur	
20.	In a b	ivariate regression analysis for dependent variable if $d = Actual value -$	
	Predic	ted value then at different values of independent variable:	
	(a)	Best fit curve occurs when $d_1^2 + d_2^2 + \dots + d_n^2$ is minimum	0
	(b)	Best fit curve occurs when $d_1^2 + d_2^2 + \dots + d_n^2$ is maximum	0
	(c)	Best fit curve occurs when $d_1^2 + d_2^2 + \dots + d_n^2$ is zero	0
	(d)	Best fit curve occurs when $d_1^2 + d_2^2 + \dots + d_n^2$ is one	0
21.	Raw d	ata is:	
	(a)	Information which can be interpreted to take decision	0
	(b)	Information which can't be put to use directly	0
	(c)	Information which is not amenable to conversion	0
	(d)	Information which are useless	0
22.	There	are four person named A, B, C, & D. A is a sales person whereas B, C, D	
22.		dents. A collected sales figures for his region and B, C, D used these data	
		er to study sales pattern. Which one of the following is correct?	
	(a)	B uses secondary data	0
	(b)	A & B both are using primary data	0
	(c)	A, B, C, D all are using secondary data	0
	(d)	B, C, D are using primary data	0
	(u)	D, C, D are using printery data	
23.	If two	unbiased coins are tossed once, the probability of getting both the heads	
25.	is?	anotased come are tossed once, the producting of getting both the fields	
	(a)	0.25	0
	(b)	0.50	0
	(-)	0.75	0
	(c)	0.75	$\sim$



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24.	The m	ean daily salary paid	to all emplo	vees in a certain o	ompany was ₹600 The		
24.	The mean daily salary paid to all employees in a certain company was ₹600. The mean daily salaries paid to the male and female employees were ₹620 and ₹520						
		tively. Male to fema		- ·			
	(a)	3:2;				0	
	(b)	4:5;				0	
	(c)	5:7;				0	
	(d)	4:1;				0	
		, , , , , , , , , , , , , , , , , , ,					
25.	The su	m of the deviations	of a certain 1	number of observa	ations measured from 4		
	is 72 a	nd the sum of the de	eviations of th	ne observations fro	om 7 is -3. Mean of the		
	observ	ations is:					
	(a)	6.88				0	
	(b)	25				0	
	(c)	3.63				0	
	(d)	Cannot be ascertain	ned with give	en data;		0	
26.	The m	ean of a certain num	ber of items	is 42. If one more	item 64 is added to the		
	data, the mean becomes 44. The no of items in the original data is:						
	(a)	20				0	
	(b)	10				0	
	(c)	43				0	
	(d)	440				0	
27.	The weighted average from the following observation is ₹46.23.						
	Price per tonne (₹) 45.60 50.70 7						
	Tonn	es Purchased	135	40	25		
	Simple average of the observation is?						
	(a)	₹46.23				0	
	(b)	₹46.26				0	
	(c)	₹66.63				0	
	(d)	₹46.24				0	
					<u>.</u>		
28.		Im of the squares of deviations are taken		of a set of observ	ations is the minimum		
	(a)	Geometric Mean;				0	
	(b)	Harmonic Mean;				0	

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	(c)	Arithmetic Mean;	0
	(d)	Mode;	0
29.	Which	one of the following is correct?	
	(a)	Regression equation predicts maximum probable values of one variable	0
		for specified values of other variable	
	(b)	Regression equation predicts most likely values of one variable for	0
		specified values of other variable	
	(c)	Regression equation predicts maxi-min values of one variable for	0
		specified values of other variable	
	(d)	Regression equation predicts minimum probable values of one variable	0
		for specified values of other variable	
30.		e most suitable average when it is desired to give greater weight to smaller	
		ations and less weight to larger ones. It is	
	(a)	AM	0
	(b)	HM	0
	(c)	GM	0
	(d)	Median	0
31.		w many different ways can 4 different cars, one of each of the 4	
		acturers, be parked in a parking lane?	
	(a)	20 ways	0
	(b)	22 ways	0
	(c)	24 ways	0
	(d)	26 ways	0
32.	In how	many ways 6 customers stand in a queue for depositing cash in bank?	
	(a)	680 ways	0
	(b)	480 ways	0
	(c)	600 ways	Ο
	(d)	720 ways	0
33.	Exami	ne the nature of the roots for the following equation $16x^2-24x+9=0$ .	
	(a)	Real and unequal	0
	(b)	Real, Irrational and Equal	0
	(c)	Real, Rational and Equal	0



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	(d)	Unreal and Imaginary	0
34.	For wl	hat value of <i>c</i> , would the product of roots be zero?	
	(a)	a = 1, b = 1, c = 1	0
	(b)	a = 1, b = 0, c = 1	0
	(c)	a = 1, b = 1, c = 0	0
	(d)	a = 1, b = 2, c = 2	0
35.	Form	the equation whose roots are $9, -4$ :	
	(a)	x + 5x - 36 = 0	0
	(b)	$x^2 - 5x - 36 = 0$	0
	(c)	$x^2 - 5x + 36 = 0$	0
	(d)	$x^2 + 5x + 36 = 0$	0
36.	Choos	e the correct condition for any equation to be Quadratic equation-	
	(a)	5 constants and all constants $> 0$ .	0
	(b)	5 constants and all constants $< 0$ .	0
	(c)	3 constants and $a > 0$ .	0
	(d)	3 constants and $a \neq 0$ .	0
37.	When	are nature of roots real rather than imaginary?	
	(a)	If Discriminant is negative	0
	(b)	If Discriminant is less than zero	0
	(c)	If Discriminant is not a perfect square	0
	(d)	If Discriminant is more than or equal to zero	0
38.		he monthly profit function if a firm's yearly fixed cost is ₹ 60,000 and production cost is ₹ 120 per piece. Each unit is sold at ₹ 15.	
	(a)	$\pi = 5x - 5000$	0
	(b)	$\pi (x) = 15x - 5000$	0
	(c)	$\pi (x) = 20x - 5000$	0
	(d)	$\pi(x) = 25x - 5000$	0
39.		ufacturer has a monthly fixed cost of ₹ 1, 00,000 and a production cost of er unit produced. The product is sold at ₹ 75. Find the cost function and	

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	(a)	25x + 50,000; 2000	0					
	(b)	50x + 1,00,000; 4000	0					
	(c)	5x + 1,00,000; 3000	0					
	(d)	2.5x + 10,000;5000	0					
40.	A cem	ent industry has a yearly fixed cost of ₹ 96,000 and a monthly production						
	cost of	₹ 13 per unit produced. The product is sold at ₹39 per unit. Find the cost						
	functio	nction.						
	(a)	13x + 8000	0					
	(b)	13x + 96,000	0					
	(c)	39x + 96,000	0					
	(d)	39x + 8000	0					
41.	A class	s consists of 48 male students and 23 female students. Find the ratio of						
	female	students to total strength of the class.						
	(a)	23:48	0					
	(b)	48:23	0					
	(c)	48:71	0					
	(d)	23:71	0					
42.	If 4, 6,	p, 27, q are in continued proportion, find the values of $p$ and $q$ .						
	(a)	p = 9, q = 9	0					
	(b)	p = 9, q = 81	0					
	(c)	p = 81, q = 9	0					
	(d)	p = 81, q = 81	0					
43.		adium having spectators divided into groups of Young Generation and Old						
		ation and the number of young spectators are 1525 and old spectators are						
	ļ	Find the ratio of Total Spectators to Young Spectators.						
	(a)	136:75	Ο					
	(b)	136:85	Ο					
	(c)	75:61	0					
	(d)	136:61	0					
1.4	Etc. 1.(							
44.		vo numbers whose mean proportional is 8 and the 1st number is square of						
		d number.	0					
	(a)	8,8	0					

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	(b)	4,2	Ο
	(c)	16,4	0
	(d)	64,8	0
45.	The ra	tio of the pocket money saved by Rakesh and his sister is 5:6. If the sister	
		$\xi$ 60 more, how much more the brother should save in order to keep the ratio	
		r savings unchanged?	
	(a)	₹60	Ο
	(b)	₹40	0
	(c)	₹50	0
	(d)	₹70	0
46.	AMS	& Co. borrows ₹1,20,000 for one year at 15% annual interest, compounded	
		ly. Find their monthly payment.	
	(a)	₹ 11,380	0
	(b)	₹ 10,830	0
	(c)	₹ 11,430	0
	(d)	₹ 10,740	0
47.	A cert	ain sum of money invested at a certain rate of compound interest doubles	
	in 8 ye	ears. In how many years will it become 16 times?	
	(a)	31 years	0
	(b)	28 years	0
	(c)	30 years	0
	(d)	32 years	0
48.	Find tl	the value of a, if $(a-2)! \times 24 = (a+1)!$	
	(a)	0	0
	(b)	2	0
	(c)	4	0
	(d)	3	0
49.	What	would be the factorial notation for: 11×10×9×8×7	
	(a)	11! / 6!	0
	(b)	11! / 5!	0
	(c)	10! / 6!	0
	(d)	10! / 5!	0



### PAPER - 3

### FUNDAMENTALS OF BUSINESS MATHEMATICS AND STATISTICS

50.	How many ways can 8 people get vaccinated from 8 vaccinators, assuming no vaccinator is idle?					
	(a)	40320 ways.	0			
	(b)	5040 ways.	0			
	(c)	5760 ways.	0			
	(d)	35280 ways.	0			