

FUNDAMENTALS OF BUSINESS MATHEMATICS AND STATISTICS

Time Allowed: 1 Hour Full Marks: 100

Answer all questions. Each question carries 2 marks.

1.		mbers are in the ratio 7: 9, if the sum of the numbers is 288, then the smaller	
	number	ris:	
	(a)	126	O
	(b)	288	O
	(c)	162	О
	(d)	144	О
2.	Find th	e next 6 terms for the series: 128, 139, 150, 161, 172, 183.	
	(a)	194, 205, 216, 228, 240, 252	О
	(b)	194, 205, 217, 229, 242, 256	О
	(c)	194, 205, 218, 231, 245, 259	О
	(d)	194, 205, 216, 227, 238, 249	О
3.	v is the	yardstick to measure the performance of two vehicles, where $y = Speed \times A$	
<i>J</i> .		Distance. If Time taken by one of the vehicle (1st Vehicle) is increased by	
		what would be the impact on the yardstick?	
	(a)	No change	О
	(b)	1st vehicle would be better than 2nd Vehicle	О
	(c)	2nd Vehicle would be better than 1st Vehicle	О
	(d)	None of the Above	О
4.	If A ∝ a	and $A = 7$ when $B = 3$, then when $B = 2$, A is	
	(a)	3/7	O
	(b)	3	0
	(c)	9	0
	(d)	1	O
5.	Find th	e Duplicate ratio of : 8 :a√4b	
	(a)	64a ² :2b ²	О
	(b)	16a ² :b ²	О
	(c)	32a ² :4b ²	О
	(d)	32a ² :8b ²	О



6.	Find th	e amount and the compound interest of Rs.9, 350 at the rate of 8% p.a.	
	compou	anded half-yearly for four years.	
	(a)	Rs. 12,795 and Rs. 3,445	О
	(b)	Rs. 12,720 and Rs. 3,370	О
	(c)	Rs. 12,758 and Rs. 3,408	О
	(d)	Rs. 12,835 and Rs. 3,485	О
7.	For any	series having 50 terms forming A.P. with first term equal to 25, what will	
	be the v	value of 'n'?	
	(a)	50	О
	(b)	25	О
	(c)	75	О
	(d)	100	О
8.	A Train	takes 35 hours to reach Punjab from Kolkata (1940 km) and takes 42 hours	
	to reacl	h Kolkata from Gujarat (2160 km). But it took 25 hours from Punjab to	
	Gujarat	(1420 km). How many days it take for a trip from Kolkata-Punjab-Gujarat-	
	Kolkata	a and what is the distance covered?	
	(a)	4 days 6 hours and 5520 km	О
	(b)	3 days 18 hours and 5520 km	О
	(c)	4 days and 2680 km	О
	(d)	5 days and 2680 km	О
9.	What w	vill be the value of $3^6 \times 3^4 \times 3^{-2} \times 3^{-3} \times 3^6$?	
	(a)	3^{21}	О
	(b)	316	О
	(c)	3 ¹⁹	О
	(d)	311	О
10.	For any	sum of roots of quadratic equation, 'a'represents -	
	(a)	Coefficient of x	О
	(b)	Coefficient of x ²	0
	(c)	Constant term	0
	(d)	None of the above	0
	(4)		
11.	If 1094($\frac{1}{(t-1)+1} = 2 \times \log_4 t$, find the value of t.	
L	11 1054(- 1) 1 = 1054 v, 11114 viiv viita vii	



	(a)	1	О
	(b)	0	О
	(c)	4	О
	(d)	2	О
12.	Find t v	when $\log_t 3125 = 5$	
	(a)	5	О
	(b)	125	О
	(c)	25	О
	(d)	625	О
13.	Which	one of the following is Discriminant of a quadratic equation?	
	(a)	$-b+b^2-4ac$	О
	(b)	$-b+b^2-4ac$	О
	(c)	$b^2 - 4ac$	О
	(d)	$\sqrt{b^2}$ +4ac	О
14.	Form t	he equation whose roots are 9, –4	
	(a)	x + 5x - 36 = 0	О
	(b)	$x^2 - 5x - 36 = 0$	О
	(c)	$x^2 - 5x + 36 = 0$	О
	(d)	$x^2 + 5x + 36 = 0$	О
15.	Form q	uadratic equation with roots as a -t, a + t	
	(a)	$x^2 - 2ax + a^2 - t^2 = 0$	О
	(b)	$x^2 + 2ax + a^2 - t^2 = 0$	О
	(c)	$x^2 - 2ax - a^2 + t^2 = 0$	О
	(d)	$x^2 + 2ax - a^2 + t^2 = 0$	О
16.	Find th	e LCM of {12!, 14!, 13!}	
	(a)	11!	0
	(b)	15!	О
	(c)	12!	0
	(d)	14!	0
17.	If "P7: 1	$^{1}P_{8} = 4:1$, find the value of n.	



	(a)	12	О
	(b)	10	О
	(c)	11	О
	(d)	13	О
18.	$\lim_{x\to 3}$	(x^3+1)	
	(a)	52	О
	(b)	53	О
	(c)	55	О
	(d)	54	О
19.	When y	$y = 4^x$ then derivative of y is ——	
	(a)	$x(4^{x-1})$	О
	(b)	4 <i>x</i>	О
		2log2	
	(c)	4 ^x 2log2	0
	(d)	None of these	0
	(-)	7,522 52 02355	
20.	y = (4x)	$(-3)^3 + (5x - 2)^2$. Calculate y_1	
	(a)	182x ² +13x+ 29	О
	(b)	$96x^2 + 13x + 29$	О
	(c)	$12x^2 + 26x + 29$	О
	(d)	192x ² +26x+58	О
21.	A dema	and function is given by: $P = a - bQ$ and the cost function is given by $C = Q^2$.	
		e value of Q for which profit will be maximum under perfect competition.	
	(a)	<u>a</u>	О
		$\overline{(a+1)}$	
	(b)	$\frac{a}{2(b+1)2}$	0
	(c)	a	0
	(c)	$\overline{2(b+1)}$	
	(d)	<u>b</u>	О
		2(a+1)	



22. There are four person named A, B, C, & D. A is a sales person whereas B, C, D are students. A collected sales figures for his region and B, C, D used these data in order to study sales pattern. Which one of the following is correct? (a) B uses secondary data (b) A & B both are using primary data (c) A, B, C, D all are using secondary data (d) B, C, D are using primary data O 23. Find the odd man out from the following: (a) Regression (b) Kurtosis (c) Sampling O (d) Central Tendency O 24. "The pass result of 50 students who took up a class test is given below: Marks: 4 5 6 7 8 9 No of Students: 8 10 9 6 4 3 " (a) 0.42 O (b) 3.06 (c) 4.74 O (d) 2.1 O 25. Assumed mean is 35 ∑fd −425 & ∑f−63 ⋅ x is: (a) 20 (b) 25.87 (c) 28.25 O (d) 19.34 O 26. The mean daily salary paid to all employees in a certain company was Rs.600. The mean daily salaries paid to the male and female employees were Rs.620 and Rs.520 respectively. Male to female employees ratio in the company is: (a) 3:2; (b) 4:5 O (d) 4:1; O										
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(b) 4:5 (c) 5:7; O		Rs.520	respectively. Male to female employees ratio in the company is :							
(c) 5:7; O		(a)	3:2;	0						
		(b)	4:5	0						
(d) 4:1; O		(c)	5:7;	0						
		(d)	4:1;	О						



27.	In a cer	tain factory a unit of work is completed by A in 4 minutes, by B in 5 minutes,	
	by C in	6 minutes, by D in 10 minutes, and by E in 12 minutes. Average number of	
	units of	f work completed per minute is	
	(a)	25/4	О
	(b)	5/48	0
	(c)	4/25	О
	(d)	25/48	О
28.	Σ(X –	X) is always equal to :	
	(a)	1;	О
	(b)	-1;	О
	(c)	0;	О
	(d)	∞ ;	О
29.	Which	one of the following is a Positional Average?	
	(a)	Geometric Mean;	О
	(b)	Harmonic Mean;	О
	(c)	Mode;	О
	(d)	Progressive Average;	О
	20		
30.	$\sum_{x=1}^{20} x =$	While computing this, it was observed that two entries were wrongly	
	entered	as 850 and 320 instead of 580 and 230. Correct value of x is:	
	(a)	2688;	О
	(b)	2746.5;	О
	(c)	2720;	О
	(d)	2662;	О
31.		and b yx are regression coefficients of series X on series Y and regression	
	coeffici	ients of series Y on series X respectively then which one of the following is	
	Correct		
	(a)	$b_{XY} \times b_{YX} = r$, where r is the correlation coefficient	О
	(b)	$b_{XY} \times b_{YX} = r2$, where r is the correlation coefficient	О
	(c)	$b_{XY} \times b_{YX} = -r$, where r is the correlation coefficient	О
	(d)	$b_{XY} \times b_{YX} = 1/r$, where r is the correlation coefficient	О



32.	$If r^2 = 0$	0.3 & $b_{XY} = -1.5$ then b_{YX} is equal to :	
	(a)	+ 1	О
	(b)	-0.2	О
	(c)	<u>-1</u>	О
	(d)	-0.45	О
33.	In a biv	variate regression analysis comprising of series X & Y, if $\Sigma(X - X)^2 = \Sigma(Y)$	
	$ Y)^2$	then:	
	(a)	$b_{XY} = b_{YX}$	О
	(b)	$b_{XY} > b_{YX}$	О
	(c)	$b_{XY} < b_{YX}$	О
	(d)	Correlation co -eeficient = 1	О
34.	"Consi	der the following results: $N = 12$, $\Sigma dx = 0$, $\Sigma dy = 4$, $\Sigma dx^2 = 1344$, $\Sigma dy^2 = 1344$	
	215, Σα	dxdy = -4360 Appropriate regression coefficient is -"	
	(a)	-0.821	О
	(b)	1	О
	(c)	5.67	О
	(d)	-3.244	0
35.		der the following results: $N = 6$, $\Sigma y = 42$, $\Sigma y^2 = 318$, $b_{yx} = -11/34$, $\Sigma x^2 - x^2 = 34$ Then b_{xy} is"	
	(a)	-11/34	О
	(b)	11/24	0
	(c)	-34/11	О
	(d)	-11/24	О
36.	"V - 1	26V 52 % V = 0.61V + 1.51 and two magning advations. Completion	
30.		.36Y - 5.2 & Y = 0.61X + 1.51 are two regression equations. Correlation lient between X & Y is:"	
	(a)	- 0.67	О
	(b)	- 0.911	О
	(c)	0.911	0
	(d)	0.67	О
37.		variate analysis if two regression equations are $8x - 10y + 66 = 0 & 40x - 14 = 0$. Then x , y , the mean of the series $x - y$ care respectively :	



	(b) (c) (d) If an ex	17,17 5/4,20/9 8,18	0 0 0
	(d)		
	. ,	8,18	O
	If an ex		
	If an ex		
		periment has a set of events that includes every possible outcomes, then the	
	set is ca	alled:	
	(a)	Mutually Exclusive set	О
	(b)	Mutually Exhaustive set	О
	(c)	Collectively Exhaustive set	О
	(d)	Exhaustive & Exclusive set	О
39.	Additio	on rule for mutually exclusive events A & B is:	
	(a)	P(A or B) = P(A) + P(B)	О
	(b)	P(A or B) = P(A+B)	О
	(c)	P(A or B) = P(A) + P(B) - P(AB)	О
	(d)	P(A or B) = P(A+B - AB)	О
40.	The pro	bbability that a leap year selected at random contain 53 Sundays is:	
	(a)	0.143	О
	(b)	1	О
	(c)	0.286	O
	(d)	0.48	О
41.	Three c	coins are tossed together. The probability of getting exactly two heads is:	
	(a)	5/8	О
	(b)	3/8	О
	(c)	1/8	О
	(d)	None	О
42.	A bag	contains 10 red and 10 green balls. A ball is drawn from it. The probability	
	that it v	vill be green is:	
	(a)	1/10	О
	(b)	1/3	0
	(c)	1/2	0
	(d)	None of these	0



43.	reserva	y by Air travelers' association revealed that 60% of its member made airline									
43.	reserva										
		· · · · · · · · · · · · · · · · · · ·									
	both the	ions last year. Two members are selected at random. The probability that									
		e members made airline reservations last year is:									
	(a)	0.6	0								
	(b)	0.4	O								
	(c)	0.36	O								
	(d)	0.16	О								
44.	If p: q a	are the odds in favour of an event, then the probability of that event is:									
	(a)	p/q	О								
	(b)	p/(p+q)	O								
	(c)	q/(p+q)	O								
	(d)	None of these	O								
45.	If P(A)	= 0.3, P(B) = 0.2 and $P(C) = 0.1$, then assuming A,B and C are independent									
	events,	the probability of occurrence of at least one of the three events is:									
	(a)	0.7	O								
	(b)	0.8	0								
	(c)	0.006	0								
	(d)	0.496	О								
46.	"By usi	ng arithmetic mean method the index number from the following data is									
	Commo	odity Base price Current price Weight									
	Rice	30 52 8									
	Wheat	25 30 6									
	Fish	130 150 3									
	Potato	35 49 5									
	Oil	70 105 7"									
	(a)	144.92	O								
	(b)	202.34	O								
	(c)	161.87	O								
	(d)	115.22	О								
47.	Conside	r the following series of observation.									



	Year					1	2	3	4	5	6	7		8	9	10	11	
	Sales (R	s.)				2	6	1	5	3	7	2		6	4	8	3	
	5 year	moving a	averag	ge aga	ainst	year 6	is:											
	(a)	3.6																О
	(b)	4.6																О
	(c)	4.4																О
	(d)	5.4																О
48.	"From	the follo	wing	g seri	es fi	nd ou	t a tl	ree	year	we	ighte	ed n	novi	ng av	verag	e aga	inst	
		with wei																
	Year	1	2	3	4	5	6	5	7									
	Values	12	14	15	17	18	2	20	23									
	"																	
	(a)	20.17																0
	(b)	16.83																О
	(c)	18.17																О
	(d)	15.17																О
	. ,																	
49.	" Fis	her's	ideal	in	dex	for	pr	ices	fr	om	th	ne	foll	owin	g	lata	is:	
49.	" Fis	her's	ideal		dex ase Y		pr	rices	fr	om			foll		g (data	is:	
49.		her's		В	ase Y	Year	-	rices	fr			Curr	ent Y	Year	Č		is:	
49.		her's		В	ase Y		tity	rices	fi		C	Curro Price	ent Y	Year Qu	g o		is:	
49.	Item	her's		B it Pri	ase Y	Year Quan	tity	rices	fr		nit F	Curro Price 2	ent Y	Year Qu	antit		is:	
49.	Item A	her's		Bait Pri	ase Y	Year Quan 6	tity	rices	fi		nit F	Curro Price 2 1	ent Y	Year Qu	antit		is:	
49.	Item A B	her's		Bait Pri 8 10	ase Y	Year Quan 6 5	tity	rices	fı		nit F 1: 1	Curro Price 2 1	ent Y	Year Qu	antity		is:	
49.	Item A B C	her's 97.72		Bait Pri 8 10	ase Y	Year Quan 6 5	tity	rices	fr		nit F 1: 1	Curro Price 2 1	ent Y	Year Qu	antity		is:	0
49.	Item A B C "			Bait Pri 8 10	ase Y	Year Quan 6 5	tity	rices	fr		nit F 1: 1	Curro Price 2 1	ent Y	Year Qu	antity		is:	0
49.	Item A B C " (a) (b)	97.72		Bait Pri 8 10	ase Y	Year Quan 6 5	tity	rices	fr		nit F 1: 1	Curro Price 2 1	ent Y	Year Qu	antity		is:	
49.	Item A B C "	97.72 80.15		Bait Pri 8 10	ase Y	Year Quan 6 5	tity	rices	fi		nit F 1: 1	Curro Price 2 1	ent Y	Year Qu	antity		is:	О
49.	Item A B C " (a) (b) (c)	97.72 80.15 95.67		Bait Pri 8 10	ase Y	Year Quan 6 5	tity	rices	fi		nit F 1: 1	Curro Price 2 1	ent Y	Year Qu	antity		is:	0
50.	Item A B C " (a) (b) (c) (d)	97.72 80.15 95.67 89.14	Un	Bait Pri 8 10 15	ase \	Year Quant 6 5 8	tity	rices	fi		nit F 1: 1	Curro Price 2 1	ent Y	Year Qu	antity		is:	0
	Item A B C " (a) (b) (c) (d) "Consider	97.72 80.15 95.67 89.14	Un	Bait Pri 8 10 15	ase Y	Year Quant 6 5 8	tity			U	Cnit F 1 1 1	Price 2 1 0	ent Y	Year Qu	antity 5 5 5	y	is:	0
	Item A B C " (a) (b) (c) (d) "Consider	97.72 80.15 95.67 89.14 der the f	Un Collow Wei	Bait Pri 8 10 15	ase Y	Year Quant 6 5 8	price			U	Cnit F 1 1 1	Price 2 1 0	ent \	Year Qu	antity 5 5 5	y	is:	0
	Item A B C " (a) (b) (c) (d) "Consider	97.72 80.15 95.67 89.14 der the f	Un Follow Wei	Bait Pri 8 10 15	ase Y	Year Quant 6 5 8	price 16			U	Cnit F 1 1 1	Price 2 1 0	ent Y	Year Qu	antity 5 5 5	y	is:	0
	Item A B C " (a) (b) (c) (d) "Consider	97.72 80.15 95.67 89.14 der the f modity A B	Un Follow Wei	Bait Pri 8 10 15	ase Y	Year Quant 6 5 8	price 16 40			U	Cnit F 1 1 1	Price 2 1 0	ent Y	Year Qu	antity 5 5 5	y	is:	0
	Item A B C " (a) (b) (c) (d) "Consider	97.72 80.15 95.67 89.14 der the f	Un Follow Wei	Bait Pri 8 10 15	ase Y	Year Quant 6 5 8	price 16	e p.u		U	Cnit F 1 1 1	Price 2 1 0	ent Y	Year Qu	antity 5 5 5	y	is:	0



	Е	10	2	2.5	
Weight	ed A.M	price relative	index is		
"					
(a)	146.98				О
(b)	174.7				О
(c)	124.33				О
(d)	156.01				О



FOUNDATION EXAMINATION MODEL ANSWERS PAPER – 3

SET 1
TERM – DEC 2024
SYLLABUS 2022

FUNDAMENTALS OF BUSINESS MATHEMATICS AND STATISTICS

Time Allowed: 1 Hour Full Marks: 100

Answer all questions. Each question carries 2 marks.

Answer:

1.	2.	3.	4.	5.	6.	7.	8.	9.	10.
a	d	a	b	b	a	a	a	d	a
11.	12.	13.	14.	15.	16.	17.	18.	19.	20.
d	a	С	b	a	d	a	С	С	d
21.	22.	23.	24.	25.	26.	27.	28.	29.	30.
С	a	С	d	С	d	С	С	С	a
31.	32.	33.	34.	35.	36.	37.	38.	39.	40.
b	b	a	d	d	С	a	С	a	С
41.	42.	43.	44.	45.	46.	47.	48.	49.	50.
b	С	С	b	d	a	b	b	a	b