

SET 1 TERM DEC-2025 SYLLABUS - 2022

FUNDAMENTALS OF BUSINESS MATHEMATICS AND STATISTICS

Time Allowed: 1 Hour Full Marks: 100

Answer all questions. Each question carries 2 marks.

1.	If Q: W	V = 2.3, W:T = 4.5 and T: Y = 6.7, find Q: Y.	
	(a)	35: 51	О
	(b)	16: 35	О
	(c)	16: 51	О
	(d)	35: 51	О
2.	Find th	e fourth proportional to 6, 8, 9 is	
	(a)	18	О
	(b)	12	О
	(c)	7	О
	(d)	13	О
2		1 .	
3.	If A ∝	$\frac{1}{B}$ and A = 7 when B = 3, then when B = $2\frac{1}{3}$, A is	
	(a)	$\frac{3}{7}$	О
	(b)	3	О
	(c)	9	О
	(d)	1	О
4.		the properties of proportion, solve the following equation for y, given	
	$\frac{341}{91} =$	$\frac{y^3+3y}{3y^2+1}$	
	(a)		О
	(b)	11	О
	(c)	12	О
	(d)	10	О



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5.	If 4, 6,	p, 27, q is in continued proportion, find the values of p and q.	
	(a)	p = 9, q = 9	О
	(b)	p = 9, q = 81	О
	(c)	p = 81, q= 9	О
	(d)	p = 81, q = 81	О
6.	Find th	ne next 5 terms for the series: 2, -4, 8, -16, 32	
	(a)	-64, 128, -256, 512, -1024	О
	(b)	64, -128, 256, -512, 1024	О
	(c)	64, 128, 256, 512, 1024	О
	(d)	-64, -128, -256, -512, -1024	О
7		1.	
7.		mulated series of deposits as future sum money is classified as –	
	(a)	Annuity Fund	О
	(b)	Sinking Fund	О
	(c)	Marginal Fund	О
	(d)	Nominal Fund	О
8.	A sum	of money double itself at 7% p.a. compound interest in	
	(a)	10.27 years	О
	(b)	10.00 years	О
	(c)	12.07 years	О
	(d)	12.00 years	О
9.	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
10	1012		
10.		4ac > 0, is a perfect square, the nature of roots would be	
	(a)	Real and Equal	О



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	(b)	Imaginary	О
	(c)	Unreal	О
	(d)	Real and Unequal	О
11.		many ways can 4 different cars, one of each of the 4 manufacturers, be	
	parked	in a parking lane?	
	(a)	20 ways	О
	(b)	22 ways	О
	(c)	24 ways	О
	(d)	26 ways	О
12.	Find th	te number of permutations for 11 bikes if 5 bikes are to be taken at a time.	
	(a)	54540	О
	(b)	55440	О
	(c)	44550	О
	(d)	45450	О
13.		nine the number of ways in which a digit and a vowel can be selected from	
		ts and 26 letters of Alphabet?	
	(a)	50	О
	(b)	210	О
	(c)	105	О
	(d)	None of the Above	О
14.	Find th	the logarithm of 125 to the base $5\sqrt{5}$	
	(a)	6	О
	(b)	4	О
	(c)	3	О
	(d)	2	О



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15.	State T	Frue or False: $\log_2 10 + \log_8 125 = 1$	
	(a)	Not possible	O
	(b)	True	О
	(c)	May be true	О
	(d)	None of the above	О
1.6	D' 1.	1 2125 5	
16.		when $\log_t 3125 = 5$	
	(a)	5	O
	(b)	125	О
	(c)	25	О
	(d)	625	О
17.	What v	vill be the value of $9^6 \times 9^{-4} \times 9^2 \times 9^3 \times 9^6$?	
	(a)	9 ¹³	O
	(b)	9 ²¹	О
	(c)	Both 'a' and 'b'	0
	(d)	None of the above	О
18.	Find th	the square of the difference of the roots of $115+5(x^2-12x)=0$	
	(a)	24	О
	(b)	48	О
	(c)	26	О
	(d)	52	О
19.	cost fu	nanufacturer has a revenue function given by: $R=11Q^2-110Q+70$ and the notion is given by: $C=22Q$. Find the number of tins to be produced by the acturer.	
	(a)	2	О
	(b)	6	О
	(c)	10	О
	(d)	14	О



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20.	$\frac{x^2}{}$	$\frac{1}{1} = 1$ is an Implicit function. The derivative of this function is ——	
	16 4	$\frac{1}{x}$	
	(a)	$\frac{\lambda}{4y}$	O
	(b)	$-\frac{x}{4y}$	О
	(c)	<u>x</u>	О
	(1)	$\begin{vmatrix} 2y \\ x \end{vmatrix}$	
	(d)	$-\frac{x}{2y}$	О
21.	Raw da	ata is	
	(a)	Information which can be interpreted to take decision	О
	(b)	Information which can't be put to use directly	О
	(c)	Information which is not amenable to conversion	О
	(d)	Information which are useless	О
22.	Tabula	tion Condenses classified data so that	
	(a)	Data may be more easily understood	О
	(b)	Data may be easily presented textually	О
	(c)	Data may be more easily synchronized	О
	(d)	More comprehensive secondary result could be obtained	О
23.	Which	one of the following is a characteristic of a good classification?	
	(a)	Classification should be heterogeneous	О
	(b)	Classified groups must have overlapping data	О
	(c)	Classification should be stable	О
	(d)	Classification should not be inclusive	О
24.		se of heavy rain on Sunday average rainfall of a city for the week increased nch from the average rainfall 0.3 inch measured from Monday to Saturday.	
		nfall on Sunday was-	



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	(a)	2.4 inch	О
	(b)	0.3 inch	О
	(c)	2.1 inch	О
	(d)	1.5 inch	О
25.	The pas	ss result of 50 students who took up a class test is given below:	
	Marks	No of Students	
	4	8	
	5	10	
	6	9	
	7	6	
	8	4	
	9	3	
	If the a	verage marks for all the fifty students were 5.16, the average marks of the	
	student	s who failed is	
	(a)	0.42	О
	(b)	3.06	О
	(c)	4.74	О
	(d)	2.1	О
26.	The me	ean of a certain number of items is 42. If one more item 64 is added to the	
	data, th	e mean becomes 44. The no of items in the original data is	
	(a)	20	О
	(b)	10	О
	(c)	43	О
	(d)	440	О
2-	****		
27.		one of the following is not a feature of Arithmetic Mean (AM)?	
	(a)	AM is affected very much by extreme values;	О
	(b)	AM is widely used in the study of qualitative phenomenon;	О
	(c)	AM provides a good basis for comparison;	О
	(d)	AM is rigidly defined so different interpretation by different people are not possible;	О



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28.	For a	certain frequency table which has only been partly reproduced below for	
	which	the mean is 1.46	
	No of	<u>Frequency</u>	
	0	46	
	1	$\mathrm{f_1}$	
	2	f_2	
	3	25	
	4	10	
	5	5	
	If Σ f =	= 200 Unknown frequencies are	
	(a)	$f_1 = 0, f_2 = 114;$	О
	(b)	$f_1 = 114, f_2 = 0;$	О
	(c)	$f_1 = 76, f_2 = 38;$	О
	(d)	$f_1 = 57, f_2 = 57;$	О
29.		=54120; While computing this, it was observed that two entries were y 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
30.	Which	one of the following is a Positional Average?	
	(a)	Geometric Mean;	О
	(b)	Harmonic Mean;	О
	(c)	Mode;	О
	(d)	Progressive Average	О
31.	If b_{xy}	and b_{yx} are regression coefficients of series X on series Y and regression	
		ients of series Y on series X respectively then which one of the following is	
	correct	?	



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	(a)	b_{xy} and b_{yx} will be either both positive or both negative	О
	(b)	b_{xy} will be positive and b_{yx} will be negative	О
	(c)	b_{xy} will be negative and b_{yx} will be positive	О
	(d)	Nothing can be said like this, it depends on X & Y values	О
32.	If = r =	$= 0.52$, $\sigma_X = 4.6 \& \sigma_Y = 36.8$ then b χ_Y is equal to:	
	(a)	0.24	О
	(b)	4.16	О
	(c)	1	О
	(d)	0.065	О
33.		36Y $-$ 5.2 & Y = 0.61X + 1.51 are two regression equations. Correlation ient between X & Y is:	
	(a)	-0.67	О
	(b)	- 0.911	О
	(c)	0.911	О
	(d)	0.67	О
34.	N = 1	ler the following results: 12 , $\Sigma dx = 0$, $\Sigma dy = 4$, $\Sigma dx2 = 1344$, $\Sigma dy2 = 215$, $\Sigma dxdy = -4360$ priate regression coefficient of y on x is -	
	(a)	-0.821	О
	(b)	1	О
	(c)	5.67	О
	(d)	-3.244	О
35.		er the following results: $5, \Sigma y = 42, \Sigma y^2 = 318, b_{yx} = -\frac{11}{34}, \Sigma x^2 - \frac{1}{n} (\Sigma x)^2 = 34$ b_{xy} is	



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 (a)	
 (c)	О
 (c) - 34/11 (d) -11/24 36. If b_{xy} & b_{yx} are regression coefficients between X on Y and Y on X respectively and r is the correlation coefficient between X and Y, then: (a) (b_{xy}+b_{yx})/2 ≤ r (b) (b_{xy}+b_{yx})/2 ≤ r² (c) (b_{xy}+b_{yx})/2 ≥ r (d) (b_{xy}+b_{yx})/2 ≥ r² (e) (b_{xy}+b_{yx})/2 ≥ r² (f) (h_{xy}+h_{yx})/2 ≥ r² (g) Regression coefficient represents the increment in the value of the independent variable for a unit change in the value of the dependent variable (b) Regression coefficient represents the increment in the value of the dependent variable for a unit change in the value of the independent variable (c) Regression coefficient represents the mean value of the independent variable for a unit change in the value of the dependent variable for a unit change in the value of the dependent variable for a unit change in the value of the dependent variable for a unit change in the value of the dependent variable for a unit change in the value of the independent variable for a unit change in the value of the independent variable for a unit change in the value of the independent variable for a unit change in the value of the independent variable 38. In a bivariate regression analysis ΣXY = 1355.25, (ΣX) (ΣY) = 6396, ΣX² = 591.50 & ΣX = 52. If there are 5 items, then b_{yx} is (a) 1 (b) 0.97 	О
 (d) -11/24 (d) -11/24 (e) -11/24 (f) b_{xy} & b_{yx} are regression coefficients between X on Y and Y on X respectively and r is the correlation coefficient between X and Y, then: (a) (b_{xy}+b_{yx})/2 ≤ r (b) (b_{xy}+b_{yx})/2 ≤ r² (c) (b_{xy}+b_{yx})/2 ≥ r (d) (b_{xy}+b_{yx})/2 ≥ r² 37. In a regression equation: (a) Regression coefficient represents the increment in the value of the independent variable for a unit change in the value of the dependent variable (b) Regression coefficient represents the increment in the value of the dependent variable (c) Regression coefficient represents the mean value of the independent variable for a unit change in the value of the dependent variable for a unit change in the value of the dependent variable for a unit change in the value of the dependent variable for a unit change in the value of the dependent variable for a unit change in the value of the independent variable for a unit change in the value of the independent variable for a unit change in the value of the independent variable for a unit change in the value of the independent variable for a unit change in the value of the independent variable for a unit change in the value of the independent variable for a unit change in the value of the independent variable for a unit change in the value of the independent variable for a unit change in the value of the independent variable for a unit change in the value of the independent variable for a unit change in the value of the independent variable for a unit change in the value of the independent variable for a unit change in the value of the independent variable for a unit change in the value of the independent variable for a unit change in the value of the independent variable for a unit change in the value of the independent variable for a unit change in the value of the dependent variable for a unit change in the value of the dependent variable for a unit change	
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(a) 1 (b) 0.97	
	О
(c) 0.667	О
	О
(d) 1.5	О



FOUNDATION EXAMINATION MODEL QUESTION PAPER TERM DEC-2025 PAPER - 3

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39.	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	О
	(b)	0.8	О
	(c)	0.006	О
	(d)	0.496	О
40.	In IPL	Kolkata Knight Riders plays 70% of their games at night (8 O'clock slot)	
		% during the day (4 O clock slot). The team wins 50% of their night games	
		% of their day games. According to today's newspaper they own yesterday.	
	The pro	obability that the game was played at night is:	
	(a)	0.4667	О
	(b)	0.5645	О
	(c)	0.35	О
	(d)	0.5	О
41.	If p: q	are the odds in favour of an event, then the probability of that event is:	
	(a)	p/q	О
	(b)	p/(p+q)	О
	(c)	q/(p+q)	О
	(d)	None of these	О
42.	4 coins	s are tossed. The probability that there are 2 heads is :	
	(a)	1/2	О
	(b)	3/8	O
	(c)	1/8	О
	(d)	None of these	О
43.	_	contains 10 red and 10 green balls. A ball is drawn from it. The probability will be green is:	
<u> </u>		1/10	O
	(a)	1/10	_



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	(c)	1/2	О
	(d)	None of these	О
44.	Probab	ility of throwing an even number with an ordinary six faced die is:	
	(a)	1/2	О
	(b)	1	О
	(c)	0	О
	(d)	-1/2	О
45.		contains 30 balls numbered from 1 to 30. One ball is drawn at random. The ility that the number of the drawn ball will be multiple of 3 or 7 is:	
	(a)	7/15	О
	(b)	13/30	О
	(c)	1/2	О
	(d)	None of these	О
46.	Year Sales (er the following series of observation: 1 2 3 4 5 6 7 8 9 10 11 ₹) 2 6 1 5 3 7 2 6 4 8 3	
	4-year	centred moving average against year 6 is	
	(a)	5.125	О
	(b)	3.875	О
	(c)	3.625	O
	(d)	4.375	О
47.		he following series find out a three-year weighted moving average against with weights 1,4,1 is: 1 2 3 4 5 6 7 12 14 15 17 18 20 23	
	(a)	20.17	О
	(b)	16.83	О



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	(c)	18.17	О
	(d)	15.17	О
48.	From 1	he following data the four year centred moving average against year 6	
	Year	1 2 3 4 5 6 7 8 9	
		₹) 36 43 43 34 44 54 34 24 14	
	(a)	40.25	О
	(b)	40.625	О
	(c)	35.25	О
	(d)	40	О
49.	Year	the following four year centered moving average against year 4 is 1 2 3 4 5 6 7 (₹ m) 229 231 206 191 195 184 193	
	(a)	190.671	О
	(b)	199.875	0
	(c)	192.375	O
	(d)	210	О
50.	From t	ne following find the Simple average (AM) of Relative Quantity index	
50.	Item	Base Year Quantity Current Year Quantity	
	A	8 12	
	В	10 11	
	С	15 10	
	(a)	111.45	О
	(b)	108.89	О
	(c)	32.45	О
	(d)	115.46	О