Paper Code Number: 2647		2024 (1 <sup>st</sup> -A) INTERMEDIATE PART-I (11 <sup>th</sup> Cla		!	oll No:		
BUSINESS MATHEMATICS (COMMERCE GROUP) PAPER-I MTN-Y							
TIME ALLOWED: 15 Minutes			OBJECTIVE MAX		XIMUM MA	IMUM MARKS: 10	
Q.N	is correct, fill t	choices for each objective that bubble in front of thats. Cutting or filling two or	t question number.	on bubble sl	ieet. Use marke	r or pen to	
S.#	<del></del>	JESTIONS	A	В	C	D	
1	The simple interest for 2 years at 7%	st on a loan of Rs.3000 is:	Rs.220	Rs.320	Rs.520	Rs.420	
2	If $f(x) = x^2 - 4$ , then $f(-2)$ is equal to:		0	4	-4	8	
3	If 5 times a number number will be:	er of 190, then the	40	39	38	36	
4	The solution set o $2x^2 + 11x + 5 = 0$	-	$\left\{\frac{1}{2},5\right\}$	$\left\{-\frac{1}{2},-5\right\}$	{1,5}	{-1, -5}	
5	21 in binary numb	er system is:	(1011) <sub>2</sub>	(10111)2	(10001) <sub>2</sub>	(10101) <sub>2</sub>	
6	$(1101)_2 \times (10)_2 =$		(11010)2	(10110) <sub>2</sub>	(10011) <sub>2</sub>	(101011) <sub>2</sub>	
7	The value of $\lambda$ is singular:	$f A = \begin{bmatrix} \lambda & 4 \\ 3 & 2 \end{bmatrix} $ is	1 = 2	$\lambda = 4$	$\lambda = 6$	$\lambda = 8$	
8	If $A = \begin{bmatrix} -1 & -2 \\ 3 & 4 \end{bmatrix}$	then Adjoint of A is:	$\begin{bmatrix} 3 & 4 \\ -1 & -2 \end{bmatrix}$	4     2       -3     -1	$ \begin{bmatrix} -4 & -2 \\ 3 & 1 \end{bmatrix} $	$\begin{bmatrix} 4 & 2 \\ -3 & 1 \end{bmatrix}$	
9	The ratio between	3.5kg and 10.5kg is:	1:8	1:3	1:21	3:4	
10		l principle of proportion, in 12 : x :: 28 : 21	12	10	9	16	

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	TAUTHT A TELL	2024 (1 <sup>st</sup> -A)	Roll No:					
RUSI	BUSINESS MATHEMATICS (COMMERCE GROUP) PAPER-I							
TIME ALLOWED: 1.45 Hours SUBJECTIVE MAXIMUM MARKS: 40								
NOTE: Write same question number and its parts number on answer book, as given in the question paper.								
SECTION-I								
	ttempt any six parts.	$\mathcal{N}_{1}$	$N-Y$ $6\times 2=12$					
(i)	If 15 dozens of eggs cost Rs.600.							
(ii)	The ratio of boys and girls in a school is 9:5. If total number of students is 1050. Find the number of boys.							
(iii)	Calculate Zakat on an amount of Rs.2500000?							
(iv)	Define Annuity due.							
(v)	Solve $\frac{3x+2}{4} = \frac{2x+6}{5}$	,	•					
(vi)	Find the domain and range of $y = 2x + 3$							
(vii)	Solve by factorization $4x^2 + 4x - 3 = 0$							
(viii)	Find the discriminant of $4x^2 - 13x + 3 = 0$							
(ix)								
	ttempt any six parts.		$6 \times 2 = 12$					
(i)	Define odd function.		<u> </u>					
(ii)	If $f(x) = \frac{x^2 + 3x - 2}{x + 4}$ , find $f(0)$	).	•					
(iii)	Convert (35) <sub>10</sub> into binary system.							
(iv)	Convert (1011) <sub>2</sub> into decimal system.							
(v)	Simplify $(1011)_2 - (1000)_2$							
(vi)	Find $AB$ if $A = \begin{bmatrix} 2 & 1 \\ 3 & 1 \end{bmatrix}$ , $B = \begin{bmatrix} 2 \\ 1 \end{bmatrix}$							
(vii)	Define rectangular matrix.							
(viii)	Find the value of $x$ if $A = \begin{bmatrix} 2 \\ 3 \end{bmatrix}$ .	$\begin{bmatrix} 1 \\ x \end{bmatrix}$ is singular.						
(ix)	If $A = \begin{bmatrix} 4 & -4 \\ 6 & -5 \end{bmatrix}$ , then find $ A $	and Adj A.						
		SECTION-II						
NOT	E: Attempt any two question	ns.	$2 \times 8 = 16$					
4.(a)	15 men can finish a job in 8 days. How many men are required to do the same job in 5 days?							
(b)	Find the compound interest if Rs.10000 loaned for 5 years @ 8% per annum.							
5.(a)	Draw the graph of $y = x^2$							
(b)	Solve the equation by using quadratic formula $x^2 - 3\left(x + \frac{25}{12}\right) = 9x$							
6.(a)	Simplify $\{(100111)_2 + (10101)_2\} - (10111)_2$							
(b)	If $\begin{bmatrix} 1 & 5 \\ 3 & y \end{bmatrix} \begin{bmatrix} z \\ 7 \end{bmatrix} = \begin{bmatrix} 35 \\ 14 \end{bmatrix}$ Find $y$	and $z$ .						
	<u></u>		O 2024(1St A) 2500 (MITH TAN)					