محقبالوال

		Candidate:				
Business Math (Commerce Group) (New Scheme) Time: 15 Minutes			(INTERMEDIATE PART-I) 319 OBJECTIVE			Paper: I Marks: 10
				Code: 6		
Note:	that o	have four choices for each ob circle in front of that question is will result in zero mark in the eave other blank.	jective type question number. Use ma	n as A,	B, C and D. The choice wo pen to fill the circles. Cu	tting or filling two or more
1.	1.	The missing term in the	e proportion: x	: 5 ::	15:25 is	
		A) 3	B) 5		C) 15	D) 25
	2.	160 is 20% of what n	umber			
		A) 80	B) 800		C) 8000	D) 80000
	3.	Interest is classified in	classes:			
		A) five	B) four		C) three	D) two
	4.	Annuity is used in:			X	
		A) equation	B) function	C) n	nathematics of finance	D) interest
	5.	If $6x - 3 = 0$ what will be the value of 'x'?				
		A) 2	B) 9		C) 18	$D)\frac{1}{2}$
	6.	The roots of Quadratic equation are equal if:				
		A) $b^2 - 4ac = 0$	$B) b^2 - 4ac > 0$		C) $b^2 - 4ac < 0$	D) $b^2 + 4ac < 0$
	7.	If $f(x) = c$ then 'f' is	called:			
		A) implicit function	B) identity funct	tion	C) quadratic function	D) constant function
	8.	If $x+y=6$, $x-y=10$ then the values of 'x' and 'y' are:				
	X	A) $x = 6$, $y = 10$	B) $x = 4$, $y = 6$;	C) $x = 6$, $y = 4$	D) $x = 8$, $y = -2$
	9.	The order of the matrix	$c \begin{bmatrix} a & b \\ c & d \end{bmatrix}$ is:			
		A) 1 × 2	B) 2 × 1		C) 2 × 2	D) 2 × 3
	10.	(111) ₂ in decimal num	ber system is:			
		A) 7	B) 6		C) 5	D) 8

259-319-23000

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Paper: I (INTERMEDIATE PART-I) 319 Business Math (Commerce Group) (New Scheme) Marks: 40 SUBJECTIVE Time: 1:45 Hours Note: Section I is compulsory. Attempt any TWO (2) questions from Section II. (SECTION - I) $(2 \times 6 = 12)$ 2. Write short answers to any SIX questions. Express in reduced form; 24:64 i. If x:4::9:12 Find value of 'x' ii. 72 is what percentage of 360. iii. 600 is 10% of what amount. Define simple interest and write its formula. v. Define principal. vi. Write any two types of annuity. Solve for x, 3(4x-2) = 4(2x+3)Solve the equation: $\frac{2x}{7} + 2 = 0$ 3. Write short answers to any SIX questions. If $3x^2 - 5x + 2 = 0$. Find $b^2 - 4ac$ i. Solve: $3x^2 - 10x + 3 = 0$ ii. Solve the equation: 2x - y = 7 and x + y = 4iii. Define constant function. Find the equation of the line if m = 2 and c = 2V. Define Scalar Matrix. vi. viii. Convert 19 into binary system. Convert (11101)2 into decimal system. (SECTION - II) (a) If a television is purchased for Rs. 7000 and sold for Rs. 7500. Find the profit %age. Find the present value of an Annuity of Rs. 400 paid at the end of each year for 5 years, if the interest rate is 5% compounded Annually. Solve $4x^2 + 7x - 1 = 0$, by using Quadratic formula. (a) 5. A manufacturer produces items at a daily cost Rs. 10 and sells these for Rs. 20 per item. His expenditure is Rs. 500. What is his break-even point? Solve: $2x_1 - 3x_2 = 1$, $x_1 + 4x_2 = 6$ by Cramer's Rule. 6. Simplify: $[(10111011)_2 - (101110)_2] + (10000000)_2$ 259-319-23000 Juj - 11-19