	Siness Mathematics (OBJECTIVE) PART – I 019/1 (INTERMEDIATE)	AJK:	- # - 19 Roll No.
Sign. Dy. Supdat.	Fictitious Roll No. (For Office Use)		Sign. Candidate
Business Matl	hematics (INTERMEDIATE)		
(PART – I) (OBJECTIVE PART	019/1	Marks Time	: 10 : 15 Minutes

Note:- Write your Roll No. in space provided. Over writing, cutting, using of lead pencil will result in loss of marks. All questions are to be attempted.

1- Each question has four possible answers, Tick ($\sqrt{}$) the correct answer. (10)

1) Ratio between 6 kg and 42 kg is;								
	A	1:7	В	7:1	C	6:7	D	7:6
2)	60	% of 200 is;	1				<u> </u>	
	A	110	В	120	C	150	D	180
3)	It :	It 5:10::20:x. then x is;						
•	A	60	В	80	C	40	D	30
4)	For	mula for sim	ple in	terest;				
4.04 - 494.240	A	$\frac{p \times r}{t \times 100}$	В	pxt rx100	C	pxrx100 t	D	pxrxt 100
5)	If $4x - 5 = 2x + 7$. Then x is;							
	A	6	В	12	C	4	D	3
6)	Solution set of $x^2 + 5x + 6 = 0$ is;							
	A	{2,3}	В	$\{-2, -3\}$	C	$\{-2,3\}$	D	{2,1}
7)	It $x + y = 7$ and $x - y = 5$. Then x is;							
	A	2	В	4	C	6	D	8
8)	It f: x -> y. Then x is called;							
	A	Range	В	Constant function	C	Onto function	D	Domain
9)	It A = [1 2 3], B = $\begin{bmatrix} 4 \\ 5 \\ 6 \end{bmatrix}_{3 \times 1}$ Then order of AB is;							
	A	1 x 1	В	2 × 2	C	3 x 3	D	2 x 3
10)	(10	(1001) ₂ into base 10 is						
	1							

(The End)

Business-Mathematics

019/1

AJK-11-19

PAPER: PART-1

INTERMEDIATE

MARKS: 40

TIME : 1:45 Hours

Hours (SUBJECTIVE PART)

SECTION - I

2- Write short answers of any six parts.

 $(2 \times 6 = 12)$

i	Write different types of proportion.	ii	Define ratio and how it is expressed.
iii	What is the relationship among %age, base and rate?	iv	500 is what %age of 10000.
v	Write formula of simple interest.	vi	What will be simple interest on Rs. 700 borrowed for 5 years @ 9% p.a.
vii	Write formula for Amount of an Annuity due.	viii	Solve $3(4x-2) = 4(2x+3)$.
ix	Define the degree of an equation.		

3- Write short answers of any six parts.

 $(2 \times 6 = 12)$

i	Solve $x^2 + 7x + 12 = 0$, by factorization.	ii	Define an irrational equation.		
iii	Solve by elimination Method $x + y = 12$ & $x - y = 8$.	iv	Define an even function.		
V	If $2x - y = 5$, then find slope and $y - intercept$.	vi	If $A = \begin{bmatrix} 11 & 7 \\ 6 & 3 \end{bmatrix}$, $B = \begin{bmatrix} 5 & 2 \\ 3 & 1 \end{bmatrix}$, then find $A + B & A - B$.		
vii	Define skew-symmetric and symmetric matrices.		Convert 17 into Binary number system.		
ix	Convert (1101) ₂ into decimal number system.				

SECTION - II

Note:- Attempt any two questions.

 $(8 \times 2 = 16)$

4- (a) Divide Rs. 750 in the ratio 3:2 (04)

(b) How long will it take for Rs. 50000 to earn simple interest as

Rs. 10,000 at 10% per Annum. (04)

5- (a) Solve by completing square $x^2 + 18x - 40 = 0$ (04)

(b) If G(y) = y2 - 2y + 1 then find G(-1), G(1), G(-2), G(-3) (04)

6- (a) Find the values of x if $\begin{vmatrix} 3 & 1 & x \\ -1 & 3 & 4 \\ x & 1 & 0 \end{vmatrix} = -30$ (04)

(b) Evaluate $(11011)_2 \times (11110)_2$ (04)

(The End)