Asst Manager (Sys) - Pre Examination Training for Eligible Candidates: Quantitative Aptitude - Set 1								
S.N.	**Question**	**Choice1**	**Choice 2**	**Choice 3**	**Choice 4**	**Choice 5**	**Right Ans (Numeric)**	**Explanation**
	Direction (Q.1-Q.5) What should come in place of (?) in the following questions							
1	15,47,122,?,511,895	252	256	262	266	276	4	$15+1+2^2+3^3=47$; $47+2+3^2+4^3=122$; $122+3+4^2+5^3=266$; $266+4+5^2+6^3=511$; and $511+5+6^2+7^3=895$
2	16,24,?,54,81,121.5	30	34	36	22	26	3	Series is 1.5 times of previous number
3	1320,1716,2184,2730,?,4080	3280	3180	3380	3360	3160	4	Series is $(11)^3-11$, $(12)^3-12$, $(13)^3-13$ …… $(15)^3-15=3360$
4	17,305,499,521,?,575	555	565	557	536	552	3	Series is previous number +(9*32), +(9*16), +(9*8), **+(9*4)**, +(9*2) ; 521+(9*4) =557
5	7,25,61,121,211,?	271	337	296	324	284	2	Series is 2^3-1, 3^3-2, 4^3-3 …… ; $7^3-6=337$

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	Direction (Q.6-Q10) What should come in place of (?) in the following questions							
6	? % of (25646 – 19346) = 81 + 3^2	10	10/7	7	20/7	10/3	2	?% of 6300 = 90 or, (? × 6300 / 90) =100 or, ? = 100 / 70 = 10 / 7
7	√(3948 – 584)-√(1764 – 320) =?	21	19	20	14	23	3	√(3948-584)-√(1764-320) =√(3364)-√(1444)=58-38=20
8	200*0.5 * √? = 450 ÷ 2	121	81	49	64	100	2	200*0.5 * √? = 450 * 2; 100*√?=900; √?=9; ?=81
9	4.(?)6+643+5.44=653	5	6	7	8	9	1	x+643+5.44=653 x=653-(643+5.44); x=4.56
10	40% of 560+(?)%of 100=35% of 900	89	94	91	93	96	3	40% of 560+(?)% of 100=35% of 900; 224+(?)% of 100=315; (?)% of 100=315-224; (?)% of 100=91 ; (?)=91

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	Direction (Q. 11- Q.15):In each of these questions two equations numbered I and II are given.Solve both the equations and mark the appropriate option.							
11	Quantity I: x; where $10x^2 - x = 2$ Quantity II;y ; where $6y^2 + 33y + 15 = 0$	Quantity I>Quantity II	Quantity I<Quantity II	Quantity I ≥Quantity II	Quantity I ≤Quantity II	Quantity I = Quantity II or No relation	1	I:(5x+2)(2x-1)=0; x=-2/5;x=1/2 II:(y+5)(6y+3)=0;y=-5;y=-1/2
12	Quantity I: x; where $35x^2+51x+18=0$ Quantity II:y ; where $64y^2 = 1$	Quantity I>Quantity II	Quantity I<Quantity II	Quantity I ≥Quantity II	Quantity I ≤Quantity II	Quantity I = Quantity II or No relation	2	I:(7x+6)(5x+3)=0; x=-6/7;x=-3/5 II:(8y+1)(8y-1)=0;y=-1/8;y=1/8
13	Quantity I:x; where $x^2 - 13x + 91 = 7x$ Quantity II:y; where $y^2 - 7y + 56 = 8y$	Quantity I>Quantity II	Quantity I<Quantity II	Quantity I ≥Quantity II	Quantity I ≤Quantity II	Quantity I = Quantity II or No relation	5	I:(x-13)(x-7)=0; x=13; x=7 II:(y-7)(y-8)=0; y=7;y=8
14	Quantity I:x, where $x^2+43x+462=0$ Quantity II: y, where $y^2+40y+399=0$	Quantity I>Quantity II	Quantity I<Quantity II	Quantity I ≥Quantity II	Quantity I ≤Quantity II	Quantity I = Quantity II or No relation	4	I:(x+21)(x+22)=0; x=-21; x=-22 II:(y+21)(y+19)=0; y= -21; y=-19
15	Quantity I:x, where $x^2-19x+90=0$ Quantity II:y, where $y^2-3y=54$	Quantity I>Quantity II	Quantity I<Quantity II	Quantity I ≥Quantity II	Quantity I ≤Quantity II	Quantity I = Quantity II or No relation	3	I:(x-10)(x-9)=0; x=10; x=9 II:(y-9)(y+6)=0; y=9;y=-6