Objective Type Questions											
Q.1	Each questions has four possible answers. Choose the correct										
	answer and encircle it.										
1.				A.P.	whose	1st te	erm is	'a' and	common		
		nce is '									
		2a + (r	1+1)d		(b)	a + ((n+1)d				
					(d)		(d-1)n				
2.	The nt	h term o	of an A.	P. 1, 4,	7,	. 1S:	2.45				
0					(c)	21	(d)	23			
3.	If a, b,	c are in	A.P. th	ien:		¥					
	(a)	b – a =	∈ c – b		(b)	$\frac{b}{-} =$	<u>c</u>				
	(-)		-		(-)	a	b				
		an office	4		Z-15	a	b				
	(c)	a + b =	= b + c		(d)	_ =	<u>-</u> а				
4.	The 10	th term	is 7, 17	7. 27		_					
	(a)	97	(b)	98	(c)	99	(d)	100			
5.	(a) 97 (b) 98 (c) 99 (d) 100 The sum of n terms of an A.P. with 'a' as 1st term and 'd' as										
	common difference is:										
	6.%	n _	3 23	1923	32 3	n	K	22.22			
	(a)	$\frac{-1}{2}$ [a +	(n-1)	dJ	(b)	$\frac{-12}{2}$	2a + (n –	· 1)d]			
		n				n					
	(c)	$\frac{n}{2}$ [a +	(n + 1)	d]	(d)	$\frac{11}{2}$ [2	2a – (n –	1)d]			
		4				_					
6.	Arithm	netic me	ean betv	veen x	$-\sqrt{3}$ ar	id x+	√3 is:				
	(a)	X	(b)	2x	(c)	3	(d)	-3			
7.					th term						
223	(a)		500		(c)		(d)	101			
8.					7 and 7						
	(2)	<u>7</u>	(b)	<u> 7</u>	(c)	Ω	(d)	14			
	(4)	2	(0)	2	(0)	U	(4)	1.7			
9.	The su	m of th	e series	1 + 2 -	- 3 +	+]	100 is:				
	(a)	100	(b)	5000	(c)	5050	(d)	500			
10.	The nt	(a) 100 (b) 5000 (c) 5050 (d) 500 The nth term of a G.P a, ar, ar ² , is:									
	(0)	2 2	(b .)	n+1	(a)	1	n-1 (a)	orn-1			
	(a)	ar	(0)	ar	(6)	a r	(a)	ar			
	(a) ar^2 (b) ar^{n+1} (c) $\frac{1}{a}r^{n-1}$ (d) ar^{n-1} 11. The 5th term of a G.P $1, \frac{1}{2}, \frac{1}{4}, \dots$ is:										
11.	The 5t	h term o	of a G.P	$1, \frac{1}{2}, \frac{1}{2}$		is:					
				2 2	ţ						

(a) $\frac{1}{8}$ (b) $-\frac{1}{8}$ (c) $\frac{1}{16}$ (d) $\frac{1}{32}$

12.	The 6th term of G.P $1,\sqrt{2},\sqrt{4},\ldots$ is:											
	(a)	$4\sqrt{2}$	(b)	4	(c)	$\sqrt{2}$	(d)					
13.	The G.M. between a and b is:											
	(a)	±ab	(b)	ab	(c)	±√ab	(d)	√ab				
14.	If x, y,	z are in	G.P. th	nen:								
	(a) 2y	$= \mathbf{x} + \mathbf{z}$	(b	2y = 2	ΧZ	(c) y^2	= XZ	(d)	$z^2 = xy$			
15.	Geometric mean between 3 and 27 is:											
	(a)	-9	(b)	12	(c)	15	(d)	<u>±</u> 9				
16.		The sum of n terms of a geometric series:										
	$a + ar + ar^2 + \dots; r < 1$											
		ar ⁿ⁻¹	$\frac{ar^{n-1}}{r-1}$			a(1-r)	ⁿ)					
	(a)					$\frac{a(1-r^n)}{1-r}$						
						7 n						
	(c)	$\frac{\operatorname{ar}^{n+1}}{}$			(d)	$\frac{a(r^n - 1)^{n-1}}{1-r}$	<u>· 1)</u>					
	(=)	1-r			(4)	1 - r	: :					
17.	The sum of 6 terms of the series $1 + 2 + 4 + \dots$ is:											
	(a)				(c)			66				
18.					ries $1-3$							
	(a)	16	(b)	11	(c)	-11	(d)	-16				
19.	(a) 16 (b) 11 (c) -11 (d) -16 The sum of infinite terms of a G.P. a, ar_1 , ar_1^2 , if $ r \le 1$ is:											
	n.											
	(a)	$\frac{a}{1-r}$			(b)	1-r						
	$(c) \qquad ar^{n-1}$					None of						
	` /											
20.	The sum of infinite geometric series $1 + \frac{1}{3} + \frac{1}{9} + \dots$ is:											
	3 9											
	(2)	2	(b)	$-\frac{2}{}$	(c)	3	(d)	$-\frac{3}{2}$				
	(a)	3	(0)	3	(0)	2	(4)	2				
Answers												
1.	c	2.	ь			4.	a	5.	ъ			
6.	a	7.	a	8.	c	9.	c	10.	d			
11.	c	12.	a	13.		14.		15.	d			
16.	b	17.	a	18.	b	19.	a	20.	c			