	BCM SCHOOL BASANT AVENUE DUGRI ROAD LDH
1	CLASS XISC (SEQUENCES AND SERIES) A G.P consists of an even number of terms. If the sum of
1	all the terms is 5 times the sum of terms occupying odd
	places, then find its common ratio.
2	(A)4 (B)5 (C)6 (D)3 If 9 times the 9th term of an A.P. is equal to 13 times the 13th term,
	then the 22nd term of the A.P. is
	(A)0 (B)198 (C)15 (D)22
3	Assertion: The sum of first <i>n</i> terms of an A.P. whose first term is <i>A</i> ,
	the second term is B and the last term is L, is equal to
	$\frac{(B+L-2A)(A+L)}{}$
	2(B-A)
	Reason: If the sum of p terms of an A.P. is equal to the sum of
	its q terms, then the sum of its $(p+q)$ terms is $p+q$
	(A) Both A and R are true and R is the correct explanation of A
	(B) Both A and R are true, R is not correct explanation of A
	(C) A is true but R is false.
	(D) A is false but R is true.
4	If a, b, c, d are in G.P., prove that $(a^n + b^n)$, $(b^n + c^n)$, $(c^n + d^n)$ are in
5	G.P. The ratio of the A.M. and C.M. of two positive numbers a and b.
	The ratio of the A.M. and G.M. of two positive numbers a and b is m:n Show that $a: b = (m + \sqrt{m^2 - n^2}) := (m - \sqrt{m^2 - n^2})$
6	If a and b are the roots $x^2 - 3x + p = 0$ and c, d are roots of $x^2 - 12x + q$
	= 0 where a, b, c, d form a G.P. Prove that
	(q + p) : (q - p) = 17:15.
7	Shamshad Ali buys a scooter for ₹ 22000. He pays ₹ 4000 cash and
	agrees to pay the balance in annual instalment of ₹ 1000 plus 10%
	interest on the unpaid amount.
	(i)what is the interest for first month?
	(ii)what is the amount for the first instalment?
	(iii)How much will the scooter cost him