	ANANDALAYA PERIODIC TEST – 3	
	विद्या सवर्थि साधिका Class : VIII	
Su Da	bject: Mathematics M.M: 30	in.
 General Instructions: i) This question paper contains 16 questions and all questions are compulsory ii) Questions 1 – 6 in Section A are multiple choice type questions carrying 1 mark each. iii) Questions 7 – 13 in Section B are short-answer type questions carrying 2 marks each. iv) Questions 14 – 15 in Section C are short -answer type questions carrying 3 marks each. v) Question 16 in Section D is long-answer type question carrying 4 marks. 		
1	SECTION-A	(1)
1.	Find: a) $(-2)^3$ b) $(-5)^3$	(1)
2.	What will be the digit in the ones place of cube number of: a) 24 b) 39	(1)
3.	Express 27 as the sum of 3 consecutive odd numbers.	(1)
4.	Is 500 a perfect cube? Give reason for your answer.	(1)
5.	If Soham borrowed ₹ 4000 from a bank, and paid a compound interest of ₹ 2083, find the amount he had to pay the bank.	(1)
6.	Write which of the following expressions are monomials? a) $14xy$ b) $x^4 + 25$ c) $6pq + 11qr + 4rp$ d) 8 SECTION-B	(1)
7.	Find the cube root of 91125.	(2)
8.	What is the smallest number by which 392 must be multiplied so that the product is a perfect cube? Find the cube root of the product.	(2)
9.	The population of a village has a constant growth of 5%. If its present population is 33,015, what was the population two years ago?	(2)
10.	The marked price of an article is $\mathbf{\xi}$ 850 and the retailer gives a discount of 6% on that article. Find the sale price of the article.	(2)
11.	Write the terms and their coefficient for the expressions: a) $\frac{x}{2} - xy$ b) $7a^2 - a + 16$	(2)
12.	Using the suitable identity solve: a) $153^2 - 147^2$ b) 105×109	(2)
13.	Simplify:	(2)
	a) $(5x + 11)^2 - (5x - 11)^2$ b) $(x + y)(x - y) + (y + z)(y - z) + (z + x)(z - x)$. /
14.	SECTION-C Find the sum that ₹ 2048 will amount to in 18 months at 12% per annum compounded half yearly.	(3)
15.	Find the product using suitable identities: a) $(3x^2 + 7y^2)(3x^2 - 7y^2)$ b) $(3a^2 - 8b^2)(3a^2 - 8b^2)$ c) $(11x + 9)(11x + 15)$ SECTION-D	(3)
16.	Find the amount and compound interest if Harshita borrowed a sum of \gtrless 4000 for $2\frac{1}{2}$ years at the rate of 8% per annum compounded annually.	(4)